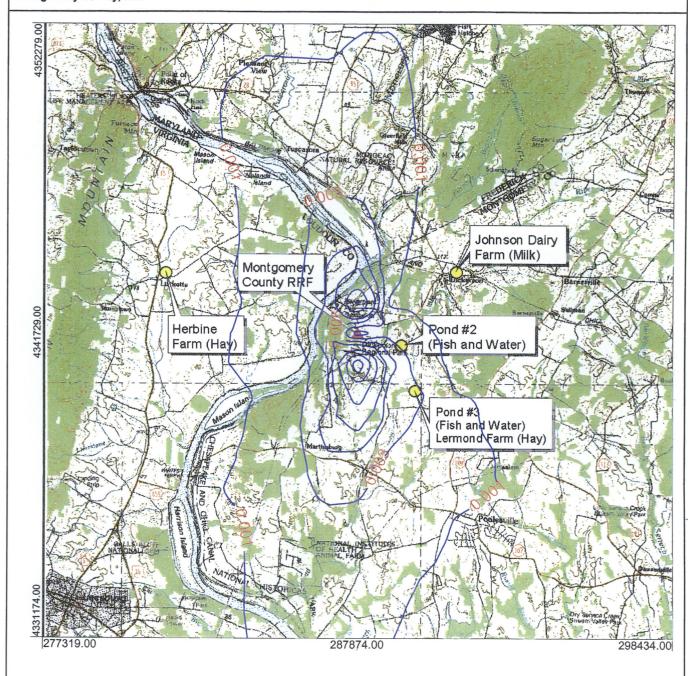
Appendix A

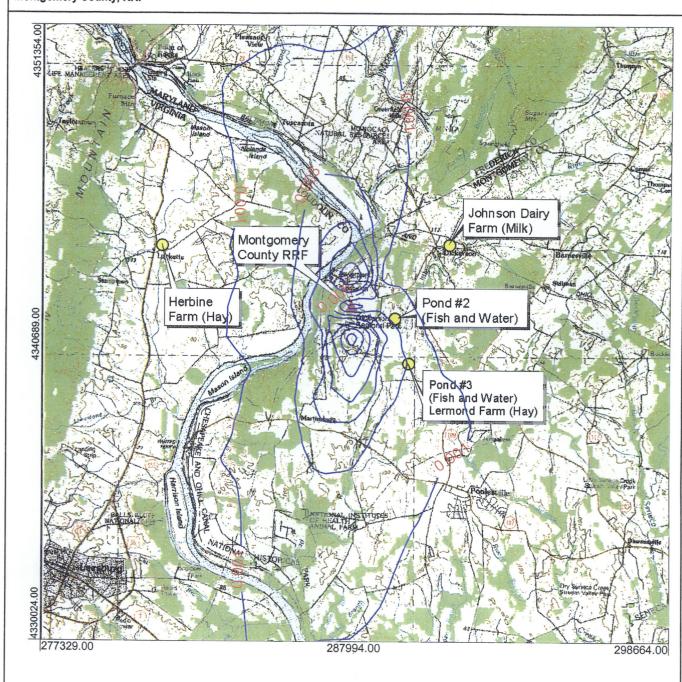
Deposition modeling isopleths

Figure 1 - Modeled Total Deposition (g/m²-yr) Montgomery County, RRF



	# RECEPTORS :	COMMENTS:		
DEPOS	6473	Site Location is Red Triangle		0
MAX:	UNITS:	Contour interval is .002 g/m²-yr up to .007 g/m²-yr	DATE:	PROJECT/PLOT NO.:
0.3026	g/m²-yr	Contour interval is .004 g/m²-yr up to .019 g/m²-yr	2/25/02	04739-001

PROJECT NAME : Figure 2 - Modeled Wet Deposition (g/m²-yr) Montgomery County, RRF



	# RECEPTORS :	COMMENTS:		
WDEP	6473	Site Location is Red Triangle		0
MAX:	UNITS:	Contour interval is .002 g/m²-yr up to .007 g/m²-yr	DATE:	PROJECT/PLOT NO. :
0.3026	g/m²-yr	Contour interval is .004 g/m²-yr up to .019 g/m²-yr	2/25/02	04739-001

Figure 3 - Modeled Dry Deposition (g/m²-yr) Montgomery County, RRF

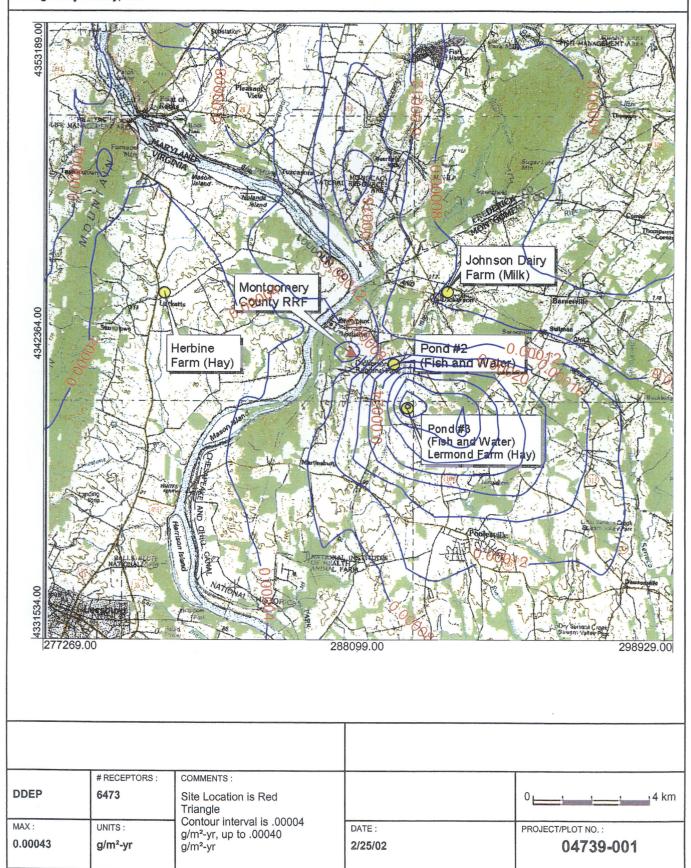
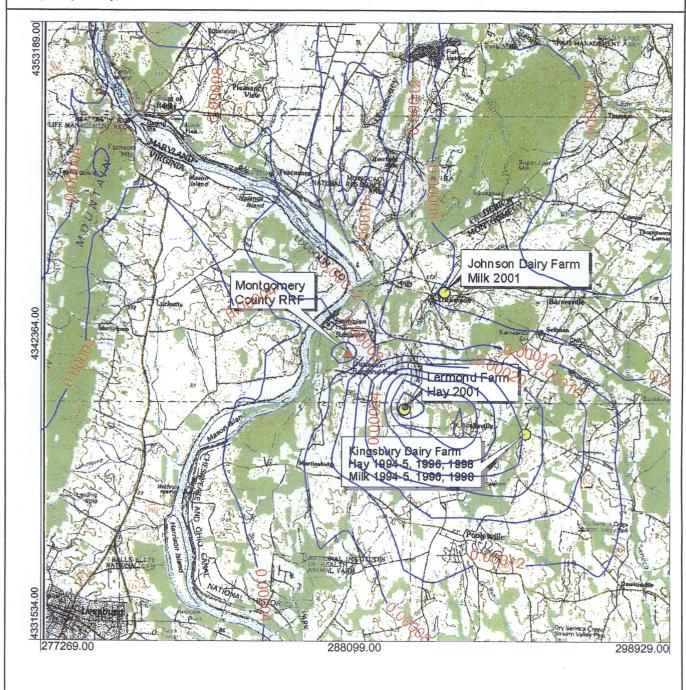


Figure 4 - Relative Positions of 2001 and Historic Milk and Hay Sampling Locations - Dry Deposition (g/m^2-yr) Montgomery County, RRF



DDEP	# RECEPTORS : 6473	g/m²-yr, up to .00040		0
MAX: 0.00043	UNITS: g/m²-yr		DATE: 2/25/02	PROJECT/PLOT NO.: 04739-001

Appendix B

Scope of work for conducting non-air media sampling (ENSR, May 2007)

Prepared for:

Montgomery County Department of Public Works & Transportation
Division of Solid Wastes Services
Rockville, Maryland







Work Plan for Conducting the Fourth Operational Phase Non-Air Media Sampling Program, Spring 2007

ENSR Corporation May 2007

Document No.: 04739-003-001



Prepared for:

Montgomery County Department of Public Works & Transportation

Division of Solid Wastes Services Rockville, Maryland



Work Plan for Conducting the Fourth Operational Phase Non-Air Media Sampling Program, Spring 2007

Prepared By: Kristen Durocher

Reviewed By: Brian Stormwind

ENSR Corporation May 2007

Document No.: 04739-003-001



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1.0 Introduction

The Montgomery County, Maryland Solid Waste Resource Recovery Facility (RRF), near Dickerson, Maryland became operational in the spring of 1995. During the planning process for this facility, citizens in the area expressed concerns regarding the potential human health effects associated with exposure to emissions from this facility. In response to this concern, the County initiated a multi-media monitoring program in the vicinity of the facility to monitor the concentrations of various organic (e.g., dioxins/furans) and inorganic (e.g., metals) constituents in abiotic and biotic environmental media. The sampling program includes air-monitoring and non-air media monitoring components. This work plan addresses the non-air monitoring component of the multi-media monitoring program that will be conducted in June 2007.

The pre-operational phase of the non-air media monitoring was conducted between May 1994 and April 1995 (i.e., time zero monitoring). The pre-operational program was designed to provide baseline data for target chemicals in various non-air media, including (but not limited to) herbaceous crops (hay), farm pond surface water, fish tissue, and bovine (cow) milk. Subsequent to the facility becoming operational, an operational phase of non-air media monitoring was conducted in 1996, with limited supplemental data collection in 1998. ENSR conducted an independent review of the data collected in these programs by Roy F. Weston. Because the operational phase non-air media sampling program was conducted only after a year of operation, there was not sufficient time for potential accumulation of the chemicals sampled in the non-air media (crops, fish, etc.). Therefore, ENSR recommended that future non-air media sampling should be conducted at longer time intervals (a minimum of ten years) to allow sufficient time for accumulation of the sampled chemicals in the non-air media. The County's Facilities Implementation Group (FIG) Air Quality Sub-committee recommended that the program be conducted with a focused scope once every three years based on their conclusion that the non-air media affects the public more directly than the air media. The 2nd operational phase monitoring sampling event was conducted by ENSR in 2001, approximately 6 years after the RRF became operational. The 3rd operational phase monitoring event was conducted by ENSR in 2004, approximately 9 years after the RRF became operational.

The 1st operational phase of the program (1996-98) provided data for target chemicals in the same environmental media as the pre-operational program (1994-95). Based on the recommendations of the FIG Air Quality Sub-committee, the 2nd and 3rd operational phase sampling programs (2001 and 2004, respectively) targeted specific environmental media of potential concern. These media included fish tissue from two trophic levels of fish, water, hay, and cow's milk. This current scope of work has been prepared to provide a summary of the proposed 4th operational phase monitoring sampling effort. This 4th sampling event is scheduled for June 2007, approximately 12 years after the RRF became operational. The 4th operational phase sampling event will be conducted in order to provide analytical data for trend analysis relative to existing pre-operational and operational phase data.

2.0 Scope of Work Summary

The target locations and media for the 2007 sampling event will be consistent with those sampled in 2001 and 2004 to the extent possible. Prior to the initiation of the field operation, Montgomery County personnel will visit the surrounding areas for the purpose of confirming the availability and accessibility of the pre-selected sites for the proposed non-air media sampling work. If any locations are no longer available for sampling, appropriate alternate sites will be selected by Montgomery County and ENSR personnel.

In June 2007, experienced ENSR field technicians will visit the selected sites and collect samples. The primary objective of this sampling program will be to obtain measurements of certain target compounds in the environmental media representative of aquatic and terrestrial food chains. The target media selected for the 2007 non-air media sampling effort are as follows:

- Herbaceous crops (hay),
- Cow's milk.
- Surface water from farm ponds,
- Sediment from farm ponds, and
- Fish in the farm ponds.

These target media are similar to those sampled in the 2001 and 2004 sampling events.

The locations of the samples will be as follows:

- Hay Lermond Farm, Johnson Dairy Farm, and the McKenny Farm (background location in Lucketts).
- Cow's Milk Johnson Dairy Farm.
- Water, fish, and sediment Evan's Pond ("Pond 2"), Lermond Pond ("Pond 3") and Site 2 Pond ("Pond 5").

These locations are consistent with the 2004 sampling program and facilitate continuing trend analysis. The locations are discussed further below.

Sediment has been added to the monitoring program for 2007. Pond sediment had been sampled in the preoperational and 1st operational monitoring programs and has been added for the 2007 program.

2.1 Analytical Program

The target compounds selected for laboratory analysis in all media (surface water, sediment, fish tissue, cow's milk, and hay) are the same as those selected in the 2001 and 2004 programs. These include dioxins/furans (PCDD/PCDF) and the following trace metals: arsenic, beryllium, cadmium, chromium, lead, mercury, and nickel. Consistent with the 2004 sampling program, the metals analysis will be conducted by Katahdin Analytical Services in Scarborough, ME and the dioxins/furans analysis will be conducted by Axys Analytical Services in Sidney, British Columbia. A summary of the method detection limits (MDLs) provided by the laboratories are listed in Table 1. The proposed MDLs for the 2007 sampling event are comparable or lower than those achieved during the 2001 and 2004 sampling events. A summary of the total number of samples to be collected in each medium is provided in Table 2.

The analytical quality assurance/quality control (QA/QC) program for metals will include one matrix spike/matrix spike duplicate (MS/MSD) per matrix for metals; dioxins/furans do not require MS/MSD.

2.2 Sampling Matrices

The following text provides a brief summary of the proposed sampling effort.

2.2.1 **Crops (Hay)**

Five herbaceous crop material (hay) samples will be collected from three discrete sampling areas for chemical analysis and trend analysis. Two samples will be collected from Lermond Farm and two from Johnson Dairy Farm, and the fifth sample from the McKenny Farm. Lermond Farm is located near the projected maximum wet deposition area and McKenny Farm is the background sampling location in Lucketts which serves as a control site. Hay will also be sampled at the Johnson Dairy Farm, the location of the milk samples, consistent with the 2004 program to facilitate trend analysis.

Hay samples will be collected by hand using disposable surgical gloves and a decontaminated stainless steel knife. The knife will be decontaminated prior to use at each sample location.

Following sample collection, the herbaceous plant material samples will be wrapped in hexane rinsed aluminum foil, placed in plastic sealable bags, preserved with dry-ice to 0°C, and shipped overnight to the analytical laboratory in accordance with standard chain-of-custody procedures.

2.2.2 Cow's Milk

Two cow's milk samples will be collected at the Johnson Dairy Farm which is the dairy farm closest to the RRF. Milk samples will be collected directly from the milk collection/mixer tank and placed into laboratory-cleaned glass sample bottles.

The bottles will be preserved with dry-ice to 0°C, and shipped overnight to the analytical laboratory in accordance with standard chain-of-custody procedures.

2.2.3 Farm-Pond Surface Water

Two surface water samples will be collected from each of the three farm ponds identified above for the inorganic and organic constituent trend analysis. Surface water samples will be collected by immersing the capped bottle slowly into the water to just below the surface, removing the cap underwater, and then slowly lifting the bottle (full of water) out of the water without disturbing the stream bottom sediment. Bottles containing preservative (i.e., bottles for total metals analysis containing nitric acid (HNO₃)) will not be immersed in the water. Preserved sample bottles will be filled by decanting water from the un-preserved bottles. Filtering for dissolved metals analysis will be performed at the laboratory.

Water quality parameters to be measured in the field include temperature, specific conductivity, dissolved oxygen, and pH. Field parameters will be measured by submerging the instrument probe in surface water, and recording the measurements after stabilization. Visual observations including color and turbidity will also be recorded in the field logbook.

The surface water sampling bottles will be preserved with ice to 4°C, and shipped overnight to the analytical laboratory in accordance with standard chain-of-custody procedures.

2.2.4 Farm-Pond Fish

Fish tissue samples will be collected from the farm pond immediately following the surface water sampling effort. Prior to the collection of any organism, a scientific collection permit is required to be obtained from the Maryland Department of Natural Resources (MDNR). ENSR has submitted the application to obtain the permit and MDNR has confirmed the permit with be issued no later than June 1, 2007. Fish tissue samples for chemical analysis will consist of adult whole-body and fillet samples for all target species. If sufficient biomass is available, no compositing of tissue will take place (i.e., each sample will consist of an individual organism). However, if compositing of samples is necessary, the composite samples will consist of the same species of similar age or size class. The number of individual organisms per composite sample will be dependent upon species and sizes of target biota collected, laboratory analytical requirements, and the distribution and relative abundance of the target organisms. Fish tissue results from this program will be compared to fish tissue data collected during the previous sampling programs to determine if there is any evidence of bioaccumulation of the target chemicals in fish.

Detailed field notes will be maintained to document the tissue sampling program. A field technician will maintain field logbooks, and sampling events will be detailed on standard sample collection forms, which will include the client, site name, a unique sample identification number, sampling location, species, number of organisms per sub-sample, physical characteristics of the sampling station, length and weight of the organism sampled, date and time, and names of field personnel.

Fish samples will be collected using standard techniques. The preferred method will be pole and line. If pole and line is not successful, back-up techniques will include electro-shocking, dip netting, seine netting and gill nets. Captured fish will be keyed to species. If any given catch contains an excess amount of individuals of similar size, a subset of a similar size class will be retained for tissue analysis. The subset of fish will be selected without bias by choosing individuals randomly (i.e., selected by number using a random number table generated prior to the field effort). The remaining catch will be released after weight and length measurements have been recorded. Any grossly deformed specimens will be photographed, preserved, and retained in a voucher collection. To determine the age of fish, scales will be collected from all fish used for tissue analysis.

The following target species have been selected for fish tissue analysis, but may be subject to change dependent upon species availability:

- Largemouth bass (Micropterus salmoides)
- Bluegill sunfish (Lepomis macrochirus)

Largemouth bass were selected to represent higher trophic level predator fish and bluegill sunfish were selected to represent primary consumer lower trophic level fish. These target species were selected for analysis because they: (1) are known to occur in adequate numbers in the man-made farm ponds, (2) represent fish of significant recreational value in the region, (3) represent typical predator and prey fish species, and (4) were collected from these ponds during prior sampling events. Collecting the same species from each pond throughout the monitoring program permits trend analysis evaluation of the fish tissue burden data.

From each of the three ponds and for each of the two species, two whole-body and two fish fillets (edible muscle tissue) will be analyzed under this program, for a total of 12 whole-body and 12 fillet samples. Skinless, boneless fish fillets will consist of the edible mussel tissue from head to tail beginning at the middorsal fin from the right or left side of each fish. Depending on the size of the fish and the quantity of tissue required for analysis, one or both fillets may be required per sample. If sufficient biomass is available in an individual fish, the right fillet will be used for the fillet analysis and the remainder of the fish will be the whole body sample. This methodology will reduce the quantity of organisms required to be sacrificed for this

program. All fish filleting and other preparation will be done in the analytical laboratory under laboratory conditions (i.e., filleting will not be performed in the field).

Following collection, all target organism tissue samples will be wrapped in hexane rinsed aluminum foil, placed in plastic sealable bags, preserved with dry-ice to 0°C, and shipped overnight to the analytical laboratory in accordance with standard ENSR chain-of-custody procedures (ENSR SOP 1007; see Appendix A).

2.2.5 Farm-Pond Sediment

Two sediment samples will be collected from each of the three farm ponds for the target inorganic and organic constituents. Sediment will be collected after surface water and fish sampling is completed to minimize disturbance of water and fish sampling. Sediment sampling equipment will be decontaminated prior to use at each sample location.

Where sediment conditions permit, samples will be collected using a pole-mounted Ekman dredge. Should resistance be encountered (i.e., vegetation or debris), a Teflon®-coated stainless steel trowel or spoon will be used to sample sediment. The dredge is preferred since it minimizes disturbance of the fine sediment material located at the very surface of the sediment. Samples will be collected from the top few inches (not to exceed 4 inches) of sediment in order to sample from the biologically active zone and to ensure the sample is comprised primarily of the most recently deposited sediments. Sediment will be transferred to a glass bowl and homogenized prior to sub-sampling into bottles. Color, texture, odor, and other physical features will be noted.

The sediment sampling bottles will be preserved with ice to 4°C, and shipped overnight to the analytical laboratory in accordance with standard chain-of-custody procedures.

Sediment results from this program will be compared to sediment data collected during the pre-operational and 1st operational sampling programs for trend analysis.

Table 2-1: Detection Limits for Metals and Dioxins/Furans In Comparison to Previously Achieved Detection Limits
Montgomery County Non-Air Media Sampling Program 2007

	Detection Limits Achieved in 2001/2004 [a]			Target Detection Limits Provided by Laboratory for 2007			
Dioxins and Furans	Water (pg/L)	Milk (pg/L)	Hay/Fish Tissue (ng/kg)	Water (pg/L)	Milk (pg/L)	Hay/Fish Tissue/Sediment (ng/kg)	
2,3,7,8-TCDF	0.4	12.5	0.1	0.5	5	0.05	
2,3,7,8-TCDD	0.4	12.5	0.1	0.5	5	0.05	
1,2,3,7,8-PeCDF	1	12.5	0.1	0.5	5	0.05	
2,3,4,7,8-PeCDF	1	12.5	0.1	0.5	5	0.05	
1,2,3,7,8-PeCDD	0.57	12.5	0.1	0.5	5	0.05	
1,2,3,4,7,8-HxCDF	1	11	0.068	0.5	5	0.05	
1,2,3,6,7,8-HxCDF	1	12	0.07	0.5	5	0.05	
1,2,3,7,8,9-HxCDF	0.67	12.5	0.086	0.5	5	0.05	
2,3,4,6,7,8-HxCDF	0.67	12.5	0.094	0.5	5	0.05	
1,2,3,4,7,8-HxCDD	0.58	12.5	0.1	0.5	5	0.05	
1,2,3,6,7,8-HxCDD	0.6	27	0.1	0.5	5	0.05	
1,2,3,7,8,9-HxCDD	0.56	13.4	0.1	0.5	5	0.05	
1,2,3,4,6,7,8-HpCDF	1	13.9	0.094	1	10	0.1	
1,2,3,4,7,8,9-HpCDF	1	12.5	0.1	1	10	0.1	
1,2,3,4,6,7,8-HpCDD	3.03	93.1	0.1	1	10	0.1	
OCDF	1	12.5	0.1	1	10	0.1	
OCDD	71.1	119	0.161	1	10	0.1	
	Detection Li	mits Achieved	in 2001/2004 [a]	Target Detection Limits Provided by Laboratory for 2007			
Metals	Water (mg/L)	Milk (mg/L)	Hay/Fish Tissue (mg/kg)	Water (mg/L)	Milk (mg/L)	Hay/Fish Tissue/Sediment (mg/kg)	
Arsenic	0.0006	0.006	0.04	0.0005	0.005	0.05	
Beryllium	0.0001	0.001	0.01	0.00002	0.0002	0.002	
Cadmium	0.00005	0.001	0.01	0.00001	0.0001	0.001	
Chromium	0.0004	0.004	0.3	0.00016	0.0016	0.16	
Lead	0.00023	0.003	0.01	0.000036	0.00036	0.036	
Mercury	0.00001	0.00008	0.0095	0.00001	0.0001	0.001	
Nickel	0.0008	0.0172	0.03	0.00005	0.0005	0.005	

Dioxins/Furans - EPA Method 1613

Metals except mercury - EPA Method 200.8/6020 (ICP-MS)

Mercury - SW-846 CVAA

[a] Lowest detection limit or detected concentration from 2001 and 2004 sampling events presented.

Table 2-2: Number of Samples for 4th Operational Phase Sampling Event
Montgomery County RRF Non-Air Media Monitoring Program – Spring 2007

	Number of					
Total Samples	Regular Samples	Duplicates	Blanks	Samples (Total)		
Surface Water						
Metals - Total recoverable	6	1	0	7		
Metals - Dissolved	6	1	0	7		
Metals MS/MSD - Total recoverable	1			1		
Metals MS/MSD - Dissolved	1			1		
Hardness - Total recoverable	6	0	0	6		
Hardness - Dissolved	6	0	0	6		
PCDD/PCDF	6	0	0	6		
Sediment						
Metals	6	1	1	8		
Metals MS/MSD	1			1		
Total Organic Carbon	6	0	0	6		
PCDD/PCDF	6	1	1	8		
Milk						
Metals	2	1	0	3		
Metals MS/MSD	1			1		
Lipids	2	0	0	2		
PCDD/PCDF	2	0	1	3		
Нау						
Metals	5	1	0	6		
Metals MS/MSD	1			1		
Lipids	5	0	0	5		
PCDD/PCDF	5	0	1	6		
Fish Whole						
Fish prep	12	1	0	13		
Metals	12	1	0	13		
Metals MS/MSD	1			1		
Lipids	12	0	0	12		
PCDD/PCDF	12	0	0	12		
Fish Fillet						
Fish prep	12	1	0	13		
Metals	12	1	0	13		
Metals MS/MSD	1	0	0	1		
Lipids	12	0	0	12		
PCDD/PCDF	12	0	0	12		

Assumptions:

Two surface water samples per pond; three ponds.

Two cow's milk samples from one farm.

Three farms sampled for hay; two site hay samples per farm, plus one sample from one background location.

Two fish species per pond (largemouth bass and sunfish)

Three ponds sampled for fish.

Two types of sample (fillet and whole body) per fish sample.

3.0 Reporting

A draft report will be prepared and submitted to the County within 5 months of the sample collection date. The report will include analysis of the data collected during the program as well as the data from other operational programs and the pre-operational program to determine if any trends are evident (e.g., bioaccumulation of chemicals in fish). In addition, the report will include evaluation of the data relative to published values and available guidance values. The report format will be consistent with the previous report developed by ENSR for the 2004 program. ENSR will incorporate comments provided by the County on the draft and finalize the document.



SOP NUMBER: 1007

Chain-of-Custody Procedures

Date: 4th Qtr. 1994 mber: 1

Revision Number:

Author: Scott Whittemore

Discipline: All

1.0 PURPOSE AND APPLICABILITY

This standard operating procedure (SOP) describes chain-of-custody procedures applicable to ENSR sampling and analysis programs.

2.0 RESPONSIBILITIES

- 2.1 The project manager is responsible for ensuring that appropriate chain-of-custody procedures are addressed in the project-specific quality assurance plan (QAPP), and for providing the project team with the materials, resources and guidance necessary to effect proper chain-of-custody procedures.
- 2.2 The project manager, sampling team leader, or designee is responsible for assigning an individual to serve as sample custodian until samples are transferred to the laboratories, and for supervising the implementation of chain-of-custody procedures in accordance with SOP and the applicable QAPP.
- 2.3 It is the responsibility of the laboratory manager to assign a qualified individual to serve as laboratory sample custodian. The laboratory manager is responsible for ensuring that chain-of-custody procedures are implemented in the laboratory in accordance with the laboratory's SOP and the applicable QAPP.
- 2.4 The sample custodian is responsible for implementing the chain-of-custody procedures in accordance with SOP and the applicable QAPP.

3.0 REQUIRED MATERIALS

- Chain-of-Custody/Analysis Request Form
- Sample Labels
- Chain-of-Custody tape

4.0 METHOD

4.1 Definitions



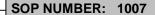
- **4.1.1** Sample Custodian Person designated as responsible for the receipt and custody of samples received by the laboratory for analysis.
- **4.1.2** Chain-of-Custody The National Enforcement Investigations Center (NEIC) of EPA defines custody of evidence in the following manner:
 - it is in your actual possession;
 - it is in your view, after being in your physical possession;
 - it was in your possession and then you locked or sealed it up to prevent tampering; or
 - it is in a secure area.

Samples are physical evidence and should be handled according to certain procedural safeguards described in Section 8 of this SOP.

- **4.1.3** The field sample custodian or sampler must complete a Chain-of-Custody form (COC) (Figures 1 and 2 or equivalent).
- **4.1.4** In most cases, the chain-of-custody procedure is initiated in the field as the samples are collected.
- 4.1.5 Some measurement methods require preparation of sample collection media or special treatment of sample containers prior to sample collection. In these cases, chain-of-custody procedures should be initiated with the media preparation or container treatment. This requires that sample identification numbers or media/container identification numbers be assigned. These must be entered on the chain-of-custody form, leaving room for the subsequent recording of the associated sample numbers. In this variation, the custodian responsible for media preparation or container treatment has the responsibilities outlined in 4.3, below, and the sampler or field sample custodian has the responsibilities in 4.4, below when he or she receives the prepared media or treated containers. There are a number of acceptable approaches to this variation, and the detailed procedures should be defined in the project-specific QAPP.
- **4.2** The sample custodian is responsible for documentation of sample custody.
 - **4.2.1** The field sample custodian or sampler is required to complete the following information:
 - Project Number
 - Client or Project Name
 - Project Location



- Field Sample Identification Number
- Date and Time of Sample Collection
- Sample Matrix
- Preservative
- Analysis Requested
- Sampler's Signature
- Signature of Person Relinquishing Sample Custody (Field Sample Custodian)
- Date and Time Relinquished
- Sampler Remarks
- Chain-of-Custody Tape Number
- 4.2.2 The COC must be filled out completely and legibly. Corrections will be made, if necessary, by drawing a single line through and initialing and dating the error. The correct information is then recorded with indelible ink. All transfers from field personnel to laboratory personnel are recorded on the chain-of-custody form in the "relinquished by" and "received by" sections.
- 4.2.3 If samples are to be shipped, the field sample custodian must complete a chain-of-custody form for each package of samples and place a copy of each completed form inside the associated package before the package is sealed. Each completed chain-of-custody form must accurately list the sample identification numbers of the samples with which it is packaged, and must contain the identification number of the chain-of-custody seal on the package.
- 4.2.4 If samples are hand carried to a laboratory, the person hand carrying the samples is the sample custodian. If the carrier is a different person than the one who filled out the chain-of-custody form and packaged the samples, then that person must transfer custody to the carrier by signing and dating each form in the "Relinquished By" section. The carrier must then sign and date each form in the adjacent "Received By" section. When the carrier transfers the samples to the laboratory, he or she must sign and date each form in the next "Relinquished By" section, and the laboratory sample custodian must sign and date each form in the adjacent "received By" section.
- **4.3** Sample Receipt and Inspection
 - **4.3.1** Upon sample receipt, the coolers or packages are inspected for general condition and the condition of the COC tape. The coolers or boxes are then opened and each sample is inspected for damage.
 - **4.3.2** Sample containers are removed from packing material and sample label field identification numbers are verified against the COC form.





- **4.3.3** The following information is recorded in the laboratory's records:
 - Airbill Number
 - Presence/absence of COC forms and custody tape
 - Condition of samples
 - Discrepancies noted
 - Holding time and preservatives
 - Sample storage location
- **4.3.4** The Chain-of-Custody form is completed by signing and recording the date and time of receipt.

5.0 QUALITY CONTROL

- 5.1 The records generated in this procedure are subject to senior review in accordance with ENSR's senior review procedures.
- 5.2 The records generated in this procedure will become a part of the evidence reviewed in the data validation process (see ENSR SOP 1009).

6.0 DOCUMENTATION

The records generated in this procedure will become part of the permanent record supporting the associated measurements. Copies of these records will be retained in the applicable project files, and in the files of the laboratories who have performed the sample analyses.

7.0 REFERENCES

None.



Serial No.

SOP NUMBER: 1007

Signature:

Time:

Signature:

Figure 1. Chain of Custody Form

ENSR CHAIN OF CUSTODY RECORD Page _____ of ____ Client/Project Name: Project Location: Analysis Requested Project Number: Field Logbook No.: Sampler: (Print Name) /Affiliation: Chain of Custody Tape No.: Send Results/Report to: Field Sample No./ Identification Sample Type (Liquid, Sludge, Etc.) Lab I.D. Grab Remarks Relinquished by: (Print Name) Date: Received by: (Print Name) Date: Analytical Laboratory (Destination): Time: Signature: Time: **ENSR** 4303 W. LaPorte Ave. Relinquished by: (Print Name) Date: Date: Received by: (Print Name) Fort Collins, CO 80521 (970) 416-0916 Signature: Time: Signature: Time: Relinquished by: (Print Name) Date: Received by: (Print Name) Date:

Time:

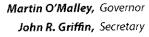


SOP NUMBER: 1007 Figure 2. Chain of Custody Tape



Appendix C

Scientific collection permit, state of Maryland





Fisheries Service

May 14, 2007

Kristen Durocher ENSR Consulting and Engineering 7041 Old Wake Forest Rd., Suite 103 Raleigh NC 27616

Dear Kristen:

Enclosed is your 2007 Scientific Collection Permit. Your permit number is SCP200778 and expires December 31, 2007. Collectors must possess the permit while sampling. This permit authorizes you to sample fish at certain locations, it does not authorize you to trespass. You must obtain permission prior to sampling on Federal, State, County and private property. A copy of your permit has been forwarded to the Natural Resources Police.

A report of all activity conducted under SCP200778 is due by January 31, 2008. For each date of activity the report should include the following information: date, location sampled, number of passes, number caught by species and the disposition of the catch.

Please contact me by phone (410) 260-8317, fax (410) 260-8279, or e-mail (rbohn@dnr.state.md.us) if you have any questions.

Sincerely,

Richard Bohn Permit Coordinator

Reliand Bolin

Enclosure

MARYLAND DEPARTMENT OF NATURAL RESOURCES

FISHERIES SERVICE

SCIENTIFIC COLLECTION PERMIT

1. PERMITTEE	2. PERMIT NUMBER	SCP200778			
ENSR CONSULTING AND ENGINEERING 7041 OLD WAKE FOREST RD., SUITE 103	3. EFFECTIVE 05-14-2007	4. EXPIRES 12-31-2007			
RALEIGH NC 27616	57111011.00	9-872-6600 x287 (WORK) durocher@ensr.aecom.com			
6. NAME AND TITLE OF PRINCIPAL OFFICER KRISTEN DUROCHER, ECOLOGIST					
7. CONDITIONS AND AUTHORIZATIONS:					
A. THE ANNOTATED CODE OF MARYLAND, §4-212, STATES THAT THE SECRETARY OF THE DEPAL CERTIFICATES TO ACCREDITED PERSONS OF SCIENTIFIC INSTITUTIONS TO PERMIT THEM TO COMPLUSKS FOR SCIENTIFIC PURPOSES. THE CONDITIONS IN STATE LAW AND REGULATIONS AN ACTIVITIES AUTHORIZED HEREIN MUST BE CARRIED OUT IN ACCORD WITH AND FOR THE PURPORT CONTINUED VALIDITY, OR RENEWAL, OF THIS PERMIT IS SUBJECT TO COMPLETE AND TIMELY INCLUDING THE FILING OF ALL REQUIRED INFORMATION AND REPORTS.	DLLECT FISH, FISH EGGS, CR RE HEREBY MADE A PART O POSES DESCRIBED IN THE AF	F THIS PERMIT. ALL PLICATION SUBMITTED.			
B. THE VALIDITY OF THIS PERMIT IS ALSO CONDITIONED UPON STRICT OBSERVANCE OF ALL A STATE LAWS.	PPLICABLE FOREIGN, FEDER	AL, LOCAL OR OTHER			
C. YOU MUST REPORT THE COLLECTION OF ANY MARKED FISH TO THE APPROPRIATE FRESHWAMAY INCLUDE, FIN CLIPS, STREAMER OR FLOY TAGS, ETC. THIS INFORMATION IS REQUIRED SI CONDUCT MARK-RECAPTURE POPULATION SURVEYS IN AREA RIVERS AND STREAMS.	ATER FISHERIES REGIONAL I NCE THE REGIONAL MANAC	MANAGER. MARKINGS IERS PERIODICALLY			
D. YOU MUST CONTACT THE DEPARTMENT OF NATURAL RESOURCES POLICE AT (410) 260-8940 TO LET THEM KNOW WHEN YOU WILL BE OPERATING IN MARYLAND WATERS. THIS ELIMINATES THE NECESSITY OF CONFIRMING ANY CALLS RELATED TO YOUR COLLECTION ACTIVITIES.					
E. THIS PERMIT DOES NOT AUTHORIZE THE COLLECTION, SALVAGE, POSSESSION OR TRANSPORTHREATENED OR ENDANGERED AT THE STATE OR FEDERAL LEVEL (EXCEPT AS LISTED BELOW)	E. THIS PERMIT DOES NOT AUTHORIZE THE COLLECTION, SALVAGE, POSSESSION OR TRANSPORTATION OF ANY SPECIES CLASSIFIED AS THREATENED OR ENDANGERED AT THE STATE OR FEDERAL LEVEL (EXCEPT AS LISTED BELOW).				
F. PROJECT DESCRIPTION : COLLECTION OF FISH FOR CHEMICAL ANAYLSIS TO ASSESS IMPACT COUNTY SOLID WASTE RESOURCE RECOVERY FACILITY. COLLECTION IS PERMITTED OF UP TO UP TO 20 OF ANY OTHER (NON-ENDANGERED) SPECIES MAY BE COLLECTED IF NECESSARY.) [U LARGEMOUTH BAS 3 AN	D 30 BEOEGIEE 30141 1311,			
G. RESTRICTIONS FOR CLASS HI NATURAL TROUT WATERS: YOU MUST APPLY FOR ADDITIO CLASS HI WATERS OR USE ELECTROFISHING GEAR OUTSIDE THE PERMITTED AREA IDENTIFIED CHARLIE GOUGEON AT 410-442-2080 OR AT <u>CGOUGEON@DNR.STATE.MD.US</u> A MINIMUM OF TW COLLECT FROM OTHER AREAS.	IBELUW, CUNTACT KEGION	AL FIGHER I MAINAGER			
H. ALL FISH HELD IN CAPTIVITY MUST BE SACRIFICED. DO NOT RETURN TO STATE WATERS.					
I. GILL NET RESTRICTIONS: GILL NETS ARE NOT PERMITTED TO BE SET FOR MORE THAN TWO	O (2) HOURS.				
J. SAMPLING AND COLLECTION OF FISH USING ELECTROFISHING GEAR, GILL NETS AND HOOK SECTIONS 7A-1 (SEE ABOVE) IN BUCHANAN POND, LANDFILL POND, YATES POND AND LERMO PURPOSES OF CHEMICAL ANALYSIS.	-AND-LINE IS PERMITTED A ND POND IN MONTGOMERY	CCORDING TO COUNTY FOR THE			
K. SPECIES COLLECTED AND/OR HELD UNDER THIS PERMIT ARE NOT PERMITTED FOR PE	RSONAL CONSUMPTION OF	SALE.			
8. LIST OF COLLECTORS IN ADDITION TO PRINCIPAL OFFICER (each collector must carry a copy of	of this permit)				
TAREQ ADHAM JIM BERG					
9. REPORTING REQUIREMENTS: SUMMARY REPORT OF PERMIT ACTIVITY DUE BY	JANUARY 31, 2008				
ISSUED BY		ISSUED			
Ruhard Bolin	PERMIT COORDINATOR 410-260-8317	05-14-2007			

Appendix D

Lab analytical data

CLIENT ID	EFSW02AA	SLSW01AA	SLSW02AA	AJM01AC	LFSD01AC	LFSW01AA	LFSW02AA	EFSW01AA
AXYS ID	L10044-1	L10044-2	L10044-3	L10044-4 (A)	L10044-5	L10044-6	L10044-7	L10044-8
WORKGROUP	WG22544	WG22544	WG22544	WG22544	WG22544	WG22544	WG22544	WG22544
Sample Size	0.968 L	0.944 L	0.924 L	0.878 L	0.809 L	0.960 L	0.983 L	0.934 L
UNITS	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L
2,3,7,8-TCDD	< 0.517	< 0.530	K 0.582	< 0.570	< 0.618	< 0.521	< 0.508	< 0.536
1,2,3,7,8-PeCDD	< 0.517	< 0.530	< 0.541	< 0.570	< 0.618	< 0.521	< 0.508	< 0.536
1,2,3,4,7,8-HxCDD	< 0.517	< 0.530	< 0.541	< 0.570	< 0.618	< 0.521	< 0.508	< 0.536
1,2,3,6,7,8-HxCDD	< 0.517	< 0.530	< 0.541	< 0.570	< 0.618	< 0.521	< 0.508	< 0.536
1,2,3,7,8,9-HxCDD	< 0.517	< 0.530	< 0.541	< 0.570	< 0.618	< 0.521	< 0.508	< 0.536
1,2,3,4,6,7,8-HpCDD	10.9	8.43	3.55	0.868	K 0.996	3.18	K 2.68	7.91
OCDD	460	499	118	K 1.57	2.73	96.9	90	396
2,3,7,8-TCDF	< 0.517	< 0.530	< 0.541	< 0.570	< 0.618	< 0.521	< 0.508	< 0.536
1,2,3,7,8-PeCDF	< 0.517	< 0.530	< 0.541	< 0.570	< 0.618	< 0.521	< 0.508	< 0.536
2,3,4,7,8-PeCDF	0.586	< 0.530	< 0.541	< 0.570	< 0.618	< 0.521	< 0.508	< 0.536
1,2,3,4,7,8-HxCDF	< 0.517	< 0.530	< 0.541	< 0.570	< 0.618	< 0.521	< 0.508	< 0.536
1,2,3,6,7,8-HxCDF	< 0.517	< 0.530	< 0.541	< 0.570	< 0.618	< 0.521	< 0.508	< 0.536
1,2,3,7,8,9-HxCDF	< 0.517	< 0.530	< 0.541	< 0.570	< 0.618	< 0.521	< 0.508	< 0.536
2,3,4,6,7,8-HxCDF	< 0.517	< 0.530	< 0.541	< 0.570	< 0.618	< 0.521	< 0.508	< 0.536
1,2,3,4,6,7,8-HpCDF	K 0.826	< 0.530	K 0.616	< 0.570	< 0.618	< 0.521	< 0.508	< 0.536
1,2,3,4,7,8,9-HpCDF	< 0.517	< 0.530	< 0.541	< 0.570	< 0.618	< 0.521	< 0.508	< 0.536
OCDF	1.84	1.02	K 1.10	< 0.570	0.959	0.74	0.653	K 1.04
Total Tetra-Dioxins	< 0.517	< 0.530	< 0.541	< 0.570	< 0.618	< 0.521	< 0.508	< 0.536
Total Penta-Dioxins	< 0.517	< 0.530	< 0.541	< 0.570	< 0.618	< 0.521	< 0.508	< 0.536
Total Hexa-Dioxins	1.13	1.9	1.44	< 0.570	< 0.618	0.696	0.516	2
Total Hepta-Dioxins	28.1	20.3	7.68	1.45	< 0.618	8.46	< 0.508	19.7
Total Tetra-Furans	< 0.517	< 0.530	< 0.541	< 0.570	< 0.618	< 0.521	< 0.508	< 0.536
Total Penta-Furans	0.586	< 0.530	< 0.541	< 0.570	< 0.618	< 0.521	< 0.508	< 0.536
Total Hexa-Furans	< 0.517	< 0.530	< 0.541	< 0.570	< 0.618	< 0.521	< 0.508	< 0.536
Total Hepta-Furans	< 0.517	< 0.530	< 0.541	< 0.570	< 0.618	< 0.521	< 0.508	< 0.536
TEQ (WHO 1998) ND=0	0.448	0.134	0.0473	0.00868	0.000369	0.0416	0.00907	0.119
TEQ (WHO 1998) ND=1/2DL	1.19	1.03	0.959	0.969	1.04	0.919	0.868	1.02
TEQ (WHO 2005) ND=0	0.423	0.234	0.0709	0.00868	0.00111	0.0611	0.0272	0.198
TEQ (WHO 2005) ND=1/2DL	1.16	1.07	0.923	0.907	0.978	0.882	0.83	1.04

CLIENT ID	Lab Blank	Spiked Matrix	AJM01AC (Duplicate)
AXYS ID	WG22544-101		WG22544-103 (DUP L10044-4) WG22544
WORKGROUP	WG22544	WG22544	0.888 L
Sample Size UNITS	1.00 L	% Recov	
2,3,7,8-TCDD	pg/L < 0.500	% Recov	pg/L < 0.563
1,2,3,7,8-PeCDD	< 0.500 < 0.500	100	< 0.563 < 0.563
1,2,3,4,7,8-HxCDD	< 0.500 < 0.500	98.3	< 0.563 < 0.563
1,2,3,4,7,8-HxCDD	< 0.500	99.4	< 0.563
1,2,3,7,8,9-HxCDD	< 0.500 < 0.500	99.4 97.2	< 0.563 < 0.563
	< 0.500 K 0.599		0.805
1,2,3,4,6,7,8-HpCDD OCDD	1.18	93.8 93.2	1.31
2,3,7,8-TCDF	< 0.500	100	< 0.563
1,2,3,7,8-PeCDF	< 0.500	92.9	< 0.563
2,3,4,7,8-PeCDF	< 0.500	92.9	< 0.563
1,2,3,4,7,8-HxCDF	< 0.500	98.3	< 0.563
1,2,3,6,7,8-HxCDF	< 0.500	99.3	< 0.563
1,2,3,7,8,9-HxCDF	< 0.500	99.6	< 0.563
2,3,4,6,7,8-HxCDF	< 0.500	97.8	< 0.563
1,2,3,4,6,7,8-HpCDF	< 0.500	102	< 0.563
1,2,3,4,7,8,9-HpCDF	< 0.500	97.6	< 0.563
OCDF	< 0.500	88.4	0.736
Total Tetra-Dioxins	< 0.500	00	< 0.563
Total Penta-Dioxins	< 0.500		< 0.563
Total Hexa-Dioxins	< 0.500		< 0.563
Total Hepta-Dioxins	< 0.500		0.805
Total Tetra-Furans	< 0.500		< 0.563
Total Penta-Furans	< 0.500		< 0.563
Total Hexa-Furans	< 0.500		< 0.563
Total Hepta-Furans	< 0.500		< 0.563
TEQ (WHO 1998) ND=0	0.000118		0.00825
TEQ (WHO 1998) ND=1/2DL	0.845		0.957
TEQ (WHO 2005) ND=0	0.000354		0.00866
TEQ (WHO 2005) ND=1/2DL	0.79		0.895

See below for definitions of possible flags and labels in the database (sheet tab 'GenericEDD')

- K = peak detected but did not meet quantification criteria number following this flag represents the estimated maximum possible concentration
- = less than the detection limit number following this symbol represents the detection limit For homologue totals sums, please see the individual congener data for the detection limit.

There may be additional flags associated with these data; please see individual hard copy reports for a complete list of flags and definitions.

OLIENT ID		1 EDC004 414/		
CLIENT ID AXYS ID	LFBG01AAW L10071-11	LFBG02AAW L10071-13	EFBG01AAW L10071-15	SLBG02AAW
				L10071-17
WORKGROUP	WG22555	WG22555	WG22555	WG22555
Sample Size	10.1 g (wet)	10.3 g (wet)	10.2 g (wet)	10.0 g (wet)
UNITS	pg/g (wet weight basis)			
2,3,7,8-TCDD	K 0.143	K 0.080	0.193	0.379
1,2,3,7,8-PeCDD	K 0.093	K 0.057	0.058	K 0.062
1,2,3,4,7,8-HxCDD	K 0.086	< 0.0487	< 0.0489	< 0.0500
1,2,3,6,7,8-HxCDD	K 0.160	K 0.077	K 0.096	0.079
1,2,3,7,8,9-HxCDD	K 0.050	< 0.0487	K 0.052	< 0.0500
1,2,3,4,6,7,8-HpCDD	K 0.490	0.328	0.476	0.408
OCDD	5.89	5.18	9.71	10.6
2,3,7,8-TCDF	0.231	0.121	0.116	0.184
1,2,3,7,8-PeCDF	< 0.0497	K 0.053	< 0.0489	< 0.0500
2,3,4,7,8-PeCDF	0.067	< 0.0487	< 0.0489	< 0.0500
1,2,3,4,7,8-HxCDF	K 0.050	< 0.0487	< 0.0489	< 0.0500
1,2,3,6,7,8-HxCDF	< 0.0497	< 0.0487	< 0.0489	< 0.0500
1,2,3,7,8,9-HxCDF	< 0.0497	< 0.0487	< 0.0489	< 0.0500
2,3,4,6,7,8-HxCDF	< 0.0497	< 0.0487	< 0.0489	< 0.0500
1,2,3,4,6,7,8-HpCDF	< 0.0497	< 0.0487	< 0.0489	< 0.0500
1,2,3,4,7,8,9-HpCDF	< 0.0497	< 0.0487	< 0.0489	< 0.0500
OCDF	0.053	< 0.0487	K 0.066	< 0.0500
Total Tetra-Dioxins	< 0.0497	< 0.0487	0.193	0.379
Total Penta-Dioxins	< 0.0497	< 0.0487	0.058	< 0.0500
Total Hexa-Dioxins	< 0.0497	< 0.0487	0.088	0.141
Total Hepta-Dioxins	0.92	0.577	0.476	0.86
Total Tetra-Furans	0.281	0.121	0.116	0.184
Total Penta-Furans	0.355	< 0.0487	< 0.0489	< 0.0500
Total Hexa-Furans	< 0.0497	< 0.0487	< 0.0489	< 0.0500
Total Hepta-Furans	< 0.0497	< 0.0487	< 0.0489	< 0.0500
2,3,7,8-TCDF (C)	< 0.114	< 0.0799	< 0.110	K 0.163
TEQ (WHO 1998) ND=0	0.0341	0.0038	0.257	0.392
TEQ (WHO 1998) ND=1/2DL	0.109	0.0874	0.293	0.451
TEQ (WHO 2005) ND=0	0.0219	0.00483	0.259	0.394
TEQ (WHO 2005) ND=1/2DL	0.0962	0.0831	0.29	0.448
% Lipid	3.13	1.37	2.69	3.66
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CLIENT ID	EFBG02AAW	SLLMB01AAF	SLLMB01AAW	SLLMB02AAF
AXYS ID	L10071-19	L10071-20	L10071-21	L10071-22
WORKGROUP	WG22555	WG22555	WG22555	WG22555
Sample Size	10.1 g (wet)	10.0 g (wet)	10.3 g (wet)	10.1 g (wet)
UNITS	pg/g (wet weight basis)			
2,3,7,8-TCDD	K 0.088	0.183	0.387	K 0.099
1,2,3,7,8-PeCDD	K 0.073	K 0.053	0.106	< 0.0493
1,2,3,4,7,8-HxCDD	< 0.0494	< 0.0500	< 0.0484	K 0.053
1,2,3,6,7,8-HxCDD	0.053	< 0.0500	0.088	< 0.0493
1,2,3,7,8,9-HxCDD	< 0.0494	< 0.0500	< 0.0484	< 0.0493
1,2,3,4,6,7,8-HpCDD	0.47	K 0.079	0.252	0.102
OCDD	13.7	0.533	3.43	K 0.438
2,3,7,8-TCDF	0.093	K 0.056	0.1	< 0.0493
1,2,3,7,8-PeCDF	< 0.0494	< 0.0500	< 0.0484	< 0.0493
2,3,4,7,8-PeCDF	< 0.0494	< 0.0500	0.064	K 0.056
1,2,3,4,7,8-HxCDF	< 0.0494	< 0.0500	< 0.0484	K 0.061
1,2,3,6,7,8-HxCDF	< 0.0494	< 0.0500	< 0.0484	< 0.0493
1,2,3,7,8,9-HxCDF	< 0.0494	< 0.0500	< 0.0484	< 0.0493
2,3,4,6,7,8-HxCDF	< 0.0494	< 0.0500	< 0.0484	K 0.052
1,2,3,4,6,7,8-HpCDF	< 0.0494	K 0.055	K 0.072	K 0.070
1,2,3,4,7,8,9-HpCDF	< 0.0494	< 0.0500	< 0.0484	< 0.0493
OCDF	K 0.083	K 0.075	0.062	K 0.170
Total Tetra-Dioxins	< 0.0494	0.183	0.387	< 0.0493
Total Penta-Dioxins	< 0.0494	< 0.0500	0.106	< 0.0493
Total Hexa-Dioxins	0.166	< 0.0500	0.088	< 0.0493
Total Hepta-Dioxins	1.04	0.063	0.454	0.102
Total Tetra-Furans	0.093	< 0.0500	0.167	< 0.0493
Total Penta-Furans	< 0.0494	< 0.0500	0.064	< 0.0493
Total Hexa-Furans	< 0.0494	< 0.0500	< 0.0484	< 0.0493
Total Hepta-Furans	< 0.0494	< 0.0500	0.06	< 0.0493
2,3,7,8-TCDF (C)	< 0.104	< 0.0766	< 0.0697	
TEQ (WHO 1998) ND=0	0.0114	0.183	0.537	0.00102
TEQ (WHO 1998) ND=1/2DL	0.0949	0.244	0.556	0.0841
TEQ (WHO 2005) ND=0	0.0141	0.183	0.525	0.00102
TEQ (WHO 2005) ND=1/2DL	0.0922	0.238	0.544	0.0787
% Lipid	2.21	0.35	1.44	

CLIENT ID	SLLMB02AAW	SLBG01AAF	SLBG01AAW	LFLMB01AAW
AXYS ID	L10071-23	L10071-24	L10071-25	L10071-7 (A)
WORKGROUP	WG22555	WG22555	WG22555	WG22555
Sample Size	10.1 g (wet)	10.4 g (wet)	10.5 g (wet)	10.1 g (wet)
UNITS	pg/g (wet weight basis)			
2,3,7,8-TCDD	0.416	K 0.095	0.347	K 0.134
1,2,3,7,8-PeCDD	0.053	< 0.0481	K 0.049	0.075
1,2,3,4,7,8-HxCDD	0.065	< 0.0481	< 0.0477	K 0.064
1,2,3,6,7,8-HxCDD	K 0.077	< 0.0481	0.098	K 0.068
1,2,3,7,8,9-HxCDD	K 0.083	< 0.0481	K 0.057	< 0.0494
1,2,3,4,6,7,8-HpCDD	0.279	K 0.097	0.326	K 0.239
OCDD	3.3	0.766	7.77	1.23
2,3,7,8-TCDF	0.174	< 0.0481	0.147	K 0.106
1,2,3,7,8-PeCDF	< 0.0495	< 0.0481	< 0.0477	< 0.0494
2,3,4,7,8-PeCDF	K 0.076	< 0.0481	0.06	< 0.0494
1,2,3,4,7,8-HxCDF	< 0.0495	< 0.0481	< 0.0477	< 0.0494
1,2,3,6,7,8-HxCDF	< 0.0495	< 0.0481	< 0.0477	< 0.0494
1,2,3,7,8,9-HxCDF	< 0.0495	< 0.0481	< 0.0477	< 0.0494
2,3,4,6,7,8-HxCDF	< 0.0495	< 0.0481	< 0.0477	< 0.0494
1,2,3,4,6,7,8-HpCDF	K 0.051	< 0.0481	< 0.0477	< 0.0494
1,2,3,4,7,8,9-HpCDF	< 0.0495	< 0.0481	< 0.0477	< 0.0494
OCDF	K 0.078	K 0.065	K 0.062	K 0.092
Total Tetra-Dioxins	0.416	< 0.0481	0.347	< 0.0494
Total Penta-Dioxins	0.053	< 0.0481	< 0.0477	0.075
Total Hexa-Dioxins	0.344	< 0.0481	0.098	< 0.0494
Total Hepta-Dioxins	0.6	< 0.0481	0.763	< 0.0494
Total Tetra-Furans	0.174	< 0.0481	0.22	< 0.0494
Total Penta-Furans	< 0.0495	< 0.0481	0.06	< 0.0494
Total Hexa-Furans	< 0.0495	< 0.0481	< 0.0477	< 0.0494
Total Hepta-Furans	< 0.0495	< 0.0481	< 0.0477	< 0.0494
2,3,7,8-TCDF (C)	0.139		K 0.130	0.083
TEQ (WHO 1998) ND=0	0.493	0.0000766	0.391	0.0834
TEQ (WHO 1998) ND=1/2DL	0.521	0.0814	0.434	0.14
TEQ (WHO 2005) ND=0	0.493	0.00023	0.38	0.0837
TEQ (WHO 2005) ND=1/2DL	0.517	0.0762	0.423	0.135
% Lipid	2.95		2.34	1.2

CLIENT ID	LFLMB02AAW	Lab Blank	Spiked Matrix	LFLMB01AAW (Duplicate)
AXYS ID	L10071-9	WG22555-101		,
WORKGROUP	WG22555	WG22555	WG22555	WG22555
Sample Size	10.6 g (wet)	10.0 g	0/ Decay	10.2 g (wet)
UNITS	pg/g (wet weight basis)	pg/g	% Recov	pg/g (wet weight basis)
2,3,7,8-TCDD	K 0.139	K 0.050	104	K 0.146
1,2,3,7,8-PeCDD	0.112	K 0.065	100	K 0.061
1,2,3,4,7,8-HxCDD	K 0.048	< 0.0500	97.5	< 0.0530
1,2,3,6,7,8-HxCDD	K 0.071	K 0.056	100	K 0.079
1,2,3,7,8,9-HxCDD	K 0.069	0.069	96	< 0.0501
1,2,3,4,6,7,8-HpCDD	K 0.215	K 0.119	97.4	0.172
OCDD	1.02	0.512	96.7	1.45
2,3,7,8-TCDF	0.086	< 0.0500	103	K 0.129
1,2,3,7,8-PeCDF	< 0.0471	< 0.0500	98.3	< 0.0490
2,3,4,7,8-PeCDF	K 0.073	0.076	99	K 0.060
1,2,3,4,7,8-HxCDF	< 0.0471	K 0.054	96.2	< 0.0490
1,2,3,6,7,8-HxCDF	< 0.0471	K 0.050	97.2	< 0.0490
1,2,3,7,8,9-HxCDF	< 0.0471	0.053	97.4	< 0.0490
2,3,4,6,7,8-HxCDF	< 0.0471	0.057	97.8	< 0.0490
1,2,3,4,6,7,8-HpCDF	< 0.0471	< 0.0500	98.9	< 0.0490
1,2,3,4,7,8,9-HpCDF	< 0.0471	K 0.066	101	< 0.0490
OCDF	K 0.061	K 0.168	96.1	0.08
Total Tetra-Dioxins	< 0.0471	< 0.0500		< 0.0490
Total Penta-Dioxins	0.112	< 0.0500		< 0.0490
Total Hexa-Dioxins	< 0.0471	0.069		< 0.0512
Total Hepta-Dioxins	0.086	< 0.0500		0.172
Total Tetra-Furans	0.086	< 0.0500		< 0.0490
Total Penta-Furans	< 0.0471	0.076		< 0.0490
Total Hexa-Furans	< 0.0471	0.163		< 0.0490
Total Hepta-Furans	< 0.0471	< 0.0500		< 0.0490
2,3,7,8-TCDF (C)	< 0.0835			< 0.0933
TEQ (WHO 1998) ND=0	0.112	0.056		0.00187
TEQ (WHO 1998) ND=1/2DL	0.17	0.12		0.087
TEQ (WHO 2005) ND=0	0.112	0.0409		0.00218
TEQ (WHO 2005) ND=1/2DL	0.165	0.105		0.0819
% Lipid	0.69			1.37

See below for definitions of possible flags and labels in the database (sheet tab 'GenericEDD')

- K = peak detected but did not meet quantification criteria number following this flag represents the estimated maximum possible concentration
- = less than the detection limit number following this symbol represents the detection limit For homologue totals sums, please see the individual congener data for the detection limit.

There may be additional flags associated with these data; please see individual hard copy reports for a complete list of flags and definitions.

CLIENT ID	EFBG01AAF	SLBG02AAF	EFBG02AAF	AJH02AA	RHH01AA
AXYS ID	L10071-14	L10071-16	L10071-18	L10071-2	L10071-3
WORKGROUP	WG22556	WG22556	WG22556	WG22556	WG22556
Sample Size	10.6 g (wet)	10.5 g (wet)	9.96 g (wet)	10.2 g (wet)	11.1 g (wet)
UNITS	pg/g (wet weight basis)				
2,3,7,8-TCDD	K 0.073	K 0.085	K 0.068	< 0.0489	< 0.0449
1,2,3,7,8-PeCDD	< 0.0471	< 0.0477	< 0.0502	0.076	< 0.0449
1,2,3,4,7,8-HxCDD	< 0.0471	< 0.0477	< 0.0502	0.055	< 0.0449
1,2,3,6,7,8-HxCDD	< 0.0471	< 0.0477	< 0.0502	0.098	< 0.0449
1,2,3,7,8,9-HxCDD	< 0.0471	< 0.0477	< 0.0502	K 0.254	< 0.0449
1,2,3,4,6,7,8-HpCDD	K 0.135	K 0.061	0.115	3.53	0.383
OCDD	1.36	K 0.331	1.82	83	3.73
2,3,7,8-TCDF	< 0.0471	< 0.0477	< 0.0502	K 0.052	< 0.0449
1,2,3,7,8-PeCDF	< 0.0471	< 0.0477	< 0.0502	< 0.0489	< 0.0449
2,3,4,7,8-PeCDF	< 0.0471	< 0.0477	< 0.0502	0.051	< 0.0449
1,2,3,4,7,8-HxCDF	< 0.0471	< 0.0477	< 0.0502	< 0.0489	< 0.0449
1,2,3,6,7,8-HxCDF	< 0.0471	< 0.0477	< 0.0502	< 0.0489	< 0.0449
1,2,3,7,8,9-HxCDF	< 0.0471	< 0.0477	< 0.0502	< 0.0489	< 0.0449
2,3,4,6,7,8-HxCDF	< 0.0471	< 0.0477	< 0.0502	< 0.0489	< 0.0449
1,2,3,4,6,7,8-HpCDF	K 0.075	< 0.0477	< 0.0502	0.476	0.125
1,2,3,4,7,8,9-HpCDF	K 0.051	< 0.0477	< 0.0502	< 0.0489	< 0.0449
OCDF	K 0.147	0.118	0.074	1.56	0.427
Total Tetra-Dioxins	< 0.0471	< 0.0477	< 0.0502	0.138	< 0.0449
Total Penta-Dioxins	< 0.0471	< 0.0477	< 0.0502	0.076	< 0.0449
Total Hexa-Dioxins	< 0.0471	< 0.0477	< 0.0502	0.788	< 0.0449
Total Hepta-Dioxins	< 0.0471	< 0.0477	0.115	7.74	0.774
Total Tetra-Furans	0.049	< 0.0477	< 0.0502	0.126	< 0.0449
Total Penta-Furans	< 0.0471	< 0.0477	< 0.0502	0.141	< 0.0449
Total Hexa-Furans	< 0.0471	< 0.0477	< 0.0502	< 0.0489	0.073
Total Hepta-Furans	< 0.0471	< 0.0477	< 0.0502	0.879	0.309
% Lipid	0	0	0.28	1.97	0.92
2,3,7,8-TCDF (C)				< 0.0865	
TEQ (WHO 1998) ND=	0.000136	0.0000118	0.00134	0.165	0.0055
TEQ (WHO 1998) ND=	0.0797	0.0806	0.0859	0.208	0.0809
TEQ (WHO 2005) ND=		0.0000354	0.00172	0.172	0.00633
TEQ (WHO 2005) ND=	0.0748	0.0754	0.0808	0.214	0.0768

CLIENT ID	LFH01AA-R	LFH02AA-R	LFLMB02AAF	Lab Blank	Spiked Matrix
AXYS ID	L10071-4	L10071-5	L10071-8	WG22556-101	WG22556-102
WORKGROUP	WG22556	WG22556	WG22556	WG22556	WG22556
Sample Size	10.1 g (wet)	11.1 g (wet)	10.1 g (wet)	10.0 g	
UNITS	pg/g (wet weight basis)	pg/g (wet weight basis)	pg/g (wet weight basis)	pg/g	% Recov
2,3,7,8-TCDD	K 0.055	K 0.096	K 0.085	< 0.0500	93.9
1,2,3,7,8-PeCDD	K 0.102	0.577	< 0.0495	< 0.0500	94.9
1,2,3,4,7,8-HxCDD	0.192	0.992	< 0.0495	< 0.0500	95
1,2,3,6,7,8-HxCDD	K 0.237	1.38	< 0.0495	< 0.0500	93.4
1,2,3,7,8,9-HxCDD	0.459	3.01	< 0.0495	< 0.0500	96.8
1,2,3,4,6,7,8-HpCDD	5.11	31.9	K 0.070	0.069	90
OCDD	46	319	0.267	0.168	92.1
2,3,7,8-TCDF	0.09	0.129	K 0.056	0.102	99.1
1,2,3,7,8-PeCDF	< 0.0496	0.05	< 0.0495	< 0.0500	91.2
2,3,4,7,8-PeCDF	K 0.052	0.085	< 0.0495	K 0.050	91.4
1,2,3,4,7,8-HxCDF	K 0.117	0.252	< 0.0495	< 0.0500	92.8
1,2,3,6,7,8-HxCDF	K 0.080	0.332	< 0.0495	< 0.0500	93.2
1,2,3,7,8,9-HxCDF	< 0.0496	< 0.0452	< 0.0495	< 0.0500	93
2,3,4,6,7,8-HxCDF	K 0.072	0.356	< 0.0495	< 0.0500	92.6
1,2,3,4,6,7,8-HpCDF	1.36	6.53	< 0.0495	< 0.0500	95.6
1,2,3,4,7,8,9-HpCDF	0.094	0.188	< 0.0495	< 0.0500	93.4
OCDF	2.31	9.18	< 0.0495	0.097	92.7
Total Tetra-Dioxins	0.126	0.422	< 0.0495	< 0.0500	
Total Penta-Dioxins	0.485	3.89	< 0.0495	< 0.0500	
Total Hexa-Dioxins	3.07	20.6	< 0.0495	< 0.0500	
Total Hepta-Dioxins	11	78.1	< 0.0495	0.069	
Total Tetra-Furans	0.465	1.1	< 0.0495	0.102	
Total Penta-Furans	0.294	2.18	< 0.0495	< 0.0500	
Total Hexa-Furans	0.82	6.01	< 0.0495	< 0.0500	
Total Hepta-Furans	2.36	10.2	< 0.0495	< 0.0500	
% Lipid	1.56	1.91	0.2		
2,3,7,8-TCDF (C)	< 0.0883	< 0.0547	< 0.0786	< 0.0864	
TEQ (WHO 1998) ND=	0.136	1.67	0.0000267	0.000717	
TEQ (WHO 1998) ND=	0.216	1.7	0.0851	0.0868	
TEQ (WHO 2005) ND=	0.145	1.72	0.0000801	0.00077	
TEQ (WHO 2005) ND=	0.22	1.75	0.0798	0.0813	

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CLIENT ID	SLSD01AA	SLSD02AA	EFSD01AA	EFSD01AA (Duplicate)
AXYS ID	L10045-1	L10045-2	L10045-3 (A)	322558-103 (DUP L10045
WORKGROUP	WG22558	WG22558	WG22558	WG22558
Sample Size	12.6 g (dry)	10.1 g (dry)	13.3 g (dry)	13.0 g (dry)
UNITS	pg/g (dry weight basis)			
2,3,7,8-TCDF (C)	0.166	0.241	< 0.0770	0.077
% Moisture	50.5	46.9	28.9	29.8
2,3,7,8-TCDD	0.206	0.425	K 0.086	K 0.085
1,2,3,7,8-PeCDD	0.588	0.322	0.223	0.319
1,2,3,4,7,8-HxCDD	1.43	0.64	0.536	0.801
1,2,3,6,7,8-HxCDD	2	0.975	0.977	1.27
1,2,3,7,8,9-HxCDD	3.07	1.48	1.25	1.66
1,2,3,4,6,7,8-HpCDD	87.5	34.7	49	64
OCDD	6200	1930	2540	3280
2,3,7,8-TCDF	0.455	0.49	0.151	0.193
1,2,3,7,8-PeCDF	K 0.154	0.177	K 0.053	0.081
2,3,4,7,8-PeCDF	0.247	0.247	K 0.106	0.106
1,2,3,4,7,8-HxCDF	0.307	0.358	0.145	0.157
1,2,3,6,7,8-HxCDF	0.231	0.232	K 0.092	0.124
1,2,3,7,8,9-HxCDF	< 0.0397	K 0.053	< 0.0376	< 0.0385
2,3,4,6,7,8-HxCDF	0.292	0.332	K 0.117	0.137
1,2,3,4,6,7,8-HpCDF	1.78	1.72	1.63	2.03
1,2,3,4,7,8,9-HpCDF	0.141	0.159	0.14	K 0.171
OCDF	3.75	2.45	4.95	6.47
Total Tetra-Dioxins	1.13	1.19	0.318	0.31
Total Penta-Dioxins	4.51	2.63	1.23	1.32
Total Hexa-Dioxins	30	14.7	15.7	21.3
Total Hepta-Dioxins	214	82.5	211	272
Total Tetra-Furans	3.09	2.94	1.13	1.61
Total Penta-Furans	2.99	3.34	1.31	1.83
Total Hexa-Furans	2.75	3.38	2.01	2.66
Total Hepta-Furans	3.01	2.8	5.08	6.41
TEQ (WHO 1998) ND=0	3.18	1.86	1.28	1.79
TEQ (WHO 1998) ND=1/2DL	3.18	1.87	1.31	1.81
TEQ (WHO 2005) ND=0	4.37	2.2	1.78	2.42
TEQ (WHO 2005) ND=1/2DL	4.38	2.2	1.82	2.44

CLIENT ID	EFSD02AA	LFSD01AA	LFSD02AA	LFSD02AB	Lab Blank
AXYS ID	L10045-4	L10045-5	L10045-6	L10045-7	WG22558-101
WORKGROUP	WG22558	WG22558	WG22558	WG22558	WG22558
Sample Size	11.2 g (dry)	12.7 g (dry)	10.5 g (dry)	10.6 g (dry)	10.0 g
UNITS	pg/g (dry weight basis)	pg/g			
2,3,7,8-TCDF (C)	< 0.135	0.359	0.46	K 0.457	100
% Moisture	34.5	46.6	60.3	56.2	
2,3,7,8-TCDD	K 0.104	0.167	K 0.202	0.183	< 0.0500
1,2,3,7,8-PeCDD	0.379	0.429	0.515	0.548	< 0.0500
1,2,3,4,7,8-HxCDD	0.775	0.957	1.36	1.37	< 0.0500
1,2,3,6,7,8-HxCDD	1.06	1.44	2.02	1.97	< 0.0500
1,2,3,7,8,9-HxCDD	1.48	2.34	3.37	3.22	< 0.0500
1,2,3,4,6,7,8-HpCDD	45.8	57.5	82.4	80.2	K 0.083
OCDD	3090	2370	3720	3550	0.307
2,3,7,8-TCDF	0.228	0.564	0.757	0.702	< 0.0500
1,2,3,7,8-PeCDF	0.095	0.159	0.21	0.205	< 0.0500
2,3,4,7,8-PeCDF	0.147	0.22	0.287	0.27	K 0.059
1,2,3,4,7,8-HxCDF	0.182	0.232	0.368	0.381	< 0.0500
1,2,3,6,7,8-HxCDF	0.127	0.211	0.324	0.293	< 0.0500
1,2,3,7,8,9-HxCDF	< 0.0447	< 0.0393	< 0.0474	< 0.0470	< 0.0500
2,3,4,6,7,8-HxCDF	0.16	0.243	0.321	0.306	< 0.0500
1,2,3,4,6,7,8-HpCDF	1.06	1.83	2.85	2.73	< 0.0500
1,2,3,4,7,8,9-HpCDF	0.092	K 0.125	0.18	0.179	0.052
OCDF	2.03	2.97	5.06	4.81	0.076
Total Tetra-Dioxins	0.301	0.929	0.802	1.28	< 0.0500
Total Penta-Dioxins	1.48	3.22	5.07	4.51	< 0.0500
Total Hexa-Dioxins	15.5	24	34.7	34.1	< 0.0500
Total Hepta-Dioxins	123	164	242	237	< 0.0500
Total Tetra-Furans	1.48	4.53	5.96	5.39	< 0.0500
Total Penta-Furans	1.78	2.96	4.88	4.47	< 0.0500
Total Hexa-Furans	1.83	3.24	5.07	5.15	< 0.0500
Total Hepta-Furans	2.06	3.37	5.5	5.39	0.052
TEQ (WHO 1998) ND=0	1.61	2.12	2.72	2.82	0.000558
TEQ (WHO 1998) ND=1/2DL	1.65	2.12	2.74	2.82	0.0848
TEQ (WHO 2005) ND=0	2.2	2.55	3.4	3.47	0.000635
TEQ (WHO 2005) ND=1/2DL	2.23	2.55	3.43	3.48	0.0794

CLIENT ID AXYS ID WORKGROUP Sample Size	Spiked Matrix WG22558-102 WG22558
UNITS 2,3,7,8-TCDF (C) % Moisture	% Recov
2,3,7,8-TCDD	101
1,2,3,7,8-PeCDD	103
1,2,3,4,7,8-HxCDD	101
1,2,3,6,7,8-HxCDD	102
1,2,3,7,8,9-HxCDD	97.4
1,2,3,4,6,7,8-HpCDD	99.4
OCDD	101
2,3,7,8-TCDF	105
1,2,3,7,8-PeCDF	101
2,3,4,7,8-PeCDF	100
1,2,3,4,7,8-HxCDF	99.2
1,2,3,6,7,8-HxCDF	101
1,2,3,7,8,9-HxCDF	102
2,3,4,6,7,8-HxCDF	102
1,2,3,4,6,7,8-HpCDF	108
1,2,3,4,7,8,9-HpCDF OCDF	103
Total Tetra-Dioxins	106
Total Penta-Dioxins	
Total Hexa-Dioxins	
Total Hepta-Dioxins	
Total Tetra-Furans	
Total Penta-Furans	
Total Hexa-Furans	
Total Hepta-Furans	
TEQ (WHO 1998) ND=0	
TEQ (WHO 1998) ND=1/2DL	
TEQ (WHO 2005) ND=0	
TEQ (WHO 2005) ND=1/2DL	

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CLIENT ID AXYS ID	LFBG01AAF L10071-10	Lab Blank WG22793-101	Spiked Matrix WG22793-102
WORKGROUP	WG22793	WG22793	WG22793
Sample Size	10.5 g (wet)	10.0 g	
UNITS	pg/g (wet weight basis)	pg/g	% Recov
2,3,7,8-TCDD	K 0.048	< 0.0500	107
1,2,3,7,8-PeCDD	< 0.0475	< 0.0500	103
1,2,3,4,7,8-HxCDD	< 0.0475	< 0.0500	103
1,2,3,6,7,8-HxCDD	< 0.0475	< 0.0500	106
1,2,3,7,8,9-HxCDD	< 0.0475	< 0.0500	104
1,2,3,4,6,7,8-HpCDD	K 0.110	0.054	105
OCDD	0.354	K 0.233	104
2,3,7,8-TCDF	< 0.0475	< 0.0500	106
1,2,3,7,8-PeCDF	< 0.0475	< 0.0500	101
2,3,4,7,8-PeCDF	< 0.0475	< 0.0500	102
1,2,3,4,7,8-HxCDF	< 0.0475	< 0.0500	101
1,2,3,6,7,8-HxCDF	< 0.0475	< 0.0500	103
1,2,3,7,8,9-HxCDF	< 0.0475	< 0.0500	104
2,3,4,6,7,8-HxCDF	< 0.0475	< 0.0500	103
1,2,3,4,6,7,8-HpCDF	K 0.062	< 0.0500	107
1,2,3,4,7,8,9-HpCDF	< 0.0475	< 0.0500	105
OCDF	0.229	0.087	101
Total Tetra-Dioxins	< 0.0475	< 0.0500	
Total Penta-Dioxins	< 0.0475	< 0.0500	
Total Hexa-Dioxins	< 0.0475	< 0.0500	
Total Hepta-Dioxins	< 0.0475	0.054	
Total Tetra-Furans	< 0.0475	< 0.0500	
Total Penta-Furans	< 0.0475	< 0.0500	
Total Hexa-Furans	< 0.0475	< 0.0500	
Total Hepta-Furans	< 0.0475	< 0.0500	
% Lipid	0.46		
TEQ (WHO 1998) ND=0	0.0000583	0.000549	
TEQ (WHO 1998) ND=1/2DL	0.0803	0.0848	
TEQ (WHO 2005) ND=0	0.000175	0.000566	
TEQ (WHO 2005) ND=1/2DL	0.0752	0.0793	

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CLIENT ID	AJH01AA	LFBG02AAF	LFLMB01AAF	Lab Blank	Spiked Matrix
AXYS ID WORKGROUP	L10071-1 WG22882	L10071-12 WG22882	L10071-6 (A) WG22882	WG22882-101 WG22882	WG22882-102 WG22882
Sample Size	10.0 g (wet)	10.1 g (wet)	10.2 g (wet)	10.0 g	VVG22002
UNITS	pg/g (wet weight basis)	pg/g (wet weight basis)	pg/g (wet weight basis)	pg/g	% Recov
2,3,7,8-TCDD	< 0.0500	< 0.0494	< 0.0492	< 0.0500	97.1
1,2,3,7,8-PeCDD	< 0.0500	< 0.0494	< 0.0492	< 0.0500	95.3
1,2,3,4,7,8-HxCDD	< 0.0500	< 0.0494	< 0.0492	< 0.0500	93.5 92.5
1,2,3,6,7,8-HxCDD	< 0.0500	< 0.0494	< 0.0492	< 0.0500	93.2
1,2,3,7,8,9-HxCDD	< 0.0500	< 0.0494	< 0.0492	< 0.0500	93.6
1,2,3,4,6,7,8-HpCDD	0.602	K 0.110	0.054	K 0.099	95.1
OCDD	6.61	0.198	0.227	0.313	93.2
2,3,7,8-TCDF	0.058	< 0.0494	< 0.0492	< 0.0500	96.6
1,2,3,7,8-PeCDF	< 0.0500	< 0.0494	< 0.0492	< 0.0500	93.6
2,3,4,7,8-PeCDF	K 0.065	< 0.0494	< 0.0492	< 0.0500	93.6
1,2,3,4,7,8-HxCDF	< 0.0500	< 0.0494	< 0.0492	< 0.0500	93.6
1,2,3,6,7,8-HxCDF	< 0.0500	< 0.0494	< 0.0492	< 0.0500	93.3
1,2,3,7,8,9-HxCDF	< 0.0500	< 0.0494	< 0.0492	< 0.0500	93.5
2,3,4,6,7,8-HxCDF	< 0.0500	< 0.0494	< 0.0492	< 0.0500	93.4
1,2,3,4,6,7,8-HpCDF	0.353	< 0.0494	< 0.0492	< 0.0500	95.4
1,2,3,4,7,8,9-HpCDF	< 0.0500	< 0.0494	< 0.0492	< 0.0500	95.5
OCDF	2.25	< 0.0494	K 0.113	K 0.089	90.5
Total Tetra-Dioxins	< 0.0500	< 0.0494	< 0.0492	< 0.0500	
Total Penta-Dioxins	< 0.0500	< 0.0494	< 0.0492	< 0.0500	
Total Hexa-Dioxins	< 0.0500	< 0.0494	< 0.0492	< 0.0500	
Total Hepta-Dioxins	1.2	< 0.0494	0.054	< 0.0535	
Total Tetra-Furans	0.058	< 0.0494	< 0.0492	< 0.0500	
Total Penta-Furans	< 0.0500	< 0.0494	< 0.0492	< 0.0500	
Total Hexa-Furans	0.059	< 0.0494	< 0.0492	< 0.0500	
Total Hepta-Furans	0.635	< 0.0494	< 0.0492	< 0.0500	
TEQ (WHO 1998) ND=0	0.0104	0.0000198	0.000563	0.0000313	
TEQ (WHO 1998) ND=1/2DL	0.0944	0.0835	0.0835	0.0846	
TEQ (WHO 2005) ND=0	0.0122	0.0000594	0.000608	0.0000939	
TEQ (WHO 2005) ND=1/2DL	0.0907	0.0781	0.0781	0.0791	
% Lipid	2.09	0.28	0.21		
2,3,7,8-TCDF (C)	< 0.0500				

- K = peak detected but did not meet quantification criteria number following this flag represents the estimated maximum possible concentration
- = less than the detection limit number following this symbol represents the detection limit For homologue totals sums, please see the individual congener data for the detection limit.

CLIENT ID	AJM01AA	AJM02AA	Lab Blank	Spiked Matrix	AJM02AA (Duplicate)
AXYS ID	L10043-1	L10043-2 (A)	WG23176-101	WG23176-102	WG23176-104 (DUP L10043-2)
WORKGROUP	WG23176	WG23176	WG23176	WG23176	WG23176
Sample Size	0.0504 L (wet)	0.0501 L (wet)	0.0500 L		0.0504 L (wet)
UNITS	pg/L (wet weight basis)	pg/L (wet weight basis)	pg/L	% Recov	pg/L (wet weight basis)
2,3,7,8-TCDD	K 10.4	K 12.2	< 10.0	90.9	K 11.9
1,2,3,7,8-PeCDD	30.1	23.4	< 10.0	88.2	K 27.1
1,2,3,4,7,8-HxCDD	31	K 28.3	< 10.0	88.9	K 30.9
1,2,3,6,7,8-HxCDD	91	K 73.5	< 10.0	90.8	77.8
1,2,3,7,8,9-HxCDD	39.2	K 46.3	< 10.0	94.8	44.5
1,2,3,4,6,7,8-HpCDD	261	247	K 16.7	88.4	223
OCDD	363	335	47.9	87	343
2,3,7,8-TCDF	< 9.93	< 9.98	< 10.0	92.3	< 9.91
1,2,3,7,8-PeCDF	< 9.93	< 9.98	< 10.0	87.2	< 9.91
2,3,4,7,8-PeCDF	13.9	11.3	11.9	88.5	14.8
1,2,3,4,7,8-HxCDF	11.1	< 9.98	< 10.0	87.1	< 9.91
1,2,3,6,7,8-HxCDF	11.3	12.4	< 10.0	87.4	K 9.99
1,2,3,7,8,9-HxCDF	< 9.93	< 9.98	< 10.0	87.6	< 9.91
2,3,4,6,7,8-HxCDF	K 12.4	< 9.98	< 10.0	88.1	K 12.6
1,2,3,4,6,7,8-HpCDF	29.8	37.7	< 10.0	90.6	30.8
1,2,3,4,7,8,9-HpCDF	< 9.93	< 9.98	< 10.0	87.9	< 9.91
OCDF	< 9.93	< 9.98	17	80.8	< 9.91
Total Tetra-Dioxins	< 9.93	< 9.98	< 10.0		< 9.91
Total Penta-Dioxins	30.1	23.4	< 10.0		< 9.91
Total Hexa-Dioxins	172	< 9.98	< 10.0		122
Total Hepta-Dioxins	261	264	< 10.0		223
Total Tetra-Furans	< 9.93	< 9.98	< 10.0		< 9.91
Total Penta-Furans	13.9	11.3	11.9		14.8
Total Hexa-Furans	22.4	12.4	< 10.0		< 9.91
Total Hepta-Furans	29.8	37.7	< 10.0		30.8
% Lipid	3.01	3.43			
TEQ (WHO 1998) ND=0	58.4	33.2	5.96		22.2
TEQ (WHO 1998) ND=1/2DL	65.1	42	20.4		35.4
TEQ (WHO 2005) ND=0	55.6	31	3.59		19.3
TEQ (WHO 2005) ND=1/2DL	62.3	39.7	17.9		32.4

- K = peak detected but did not meet quantification criteria number following this flag represents the estimated maximum possible concentration
- = less than the detection limit number following this symbol represents the detection limit For homologue totals sums, please see the individual congener data for the detection limit.





July 5, 2007

Ms. Kristen Durocher ENSR 7041 Old Wake Forest Rd. Suite 103 Raleigh,NC 27616

RE: Katahdin Lab Number:

SA2939

Project ID:

04739-003 MCRRF

Project Manager:

Mrs. Andrea Colby

Sample Receipt Date(s):

June 13, 2007

Dear Ms. Durocher:

Please find enclosed the following information:

- * Report of Analysis (Analytical and/or Field)
- * Quality Control Data Summary
- * Chain of Custody (COC)
- * Login Report

A copy of the Chain of Custody is included in the paginated report. The original COC is attached as an addendum to this report.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact the project manager listed above. This cover letter is an integral part of the ROA.

We certify that the test results provided in this report meet all the requirements of the NELAC standards unless otherwise noted in an attached technical narrative or in the Report of Analysis.

We appreciate your continued use of our laboratory and look forward to working with you in the future. The following signature indicates technical review and acceptance of the data.

Sincerely,

KATAHDIN ANALYTICAL SERVICES

actoral Madeau	07/05/2007
Authorized Signature	Date

DATA QUALIFIERS

- U Indicates the compound was analyzed for but not detected above the laboratory Practical Quantitation Limit.
- * Compound recovery outside of quality control limits.
- D Indicates the result was obtained from analysis of a diluted sample. Surrogate recoveries may not be calculable.
- E Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.
- J Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Practical Quantitation Limit (PQL), but above the Method Detection Limit (MDL).
- B Organics- Indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample.
 Metals- Indicates the analyte was detected in the sample at a concentration greater than the instrument detection limit, but less than the laboratory's Practical Quantitation Level.
- N Presumptive evidence of a compound based on a mass spectral library search.
- A Indicates that a tentatively identified compound is a suspected aldol-condensation product.
- P Used for Pesticide/Aroclor analyte when there is a greater than 25% difference for detected concentrations between the two GC columns.
- MCL Maximum Contaminant Level
- NL No limit
- NFL No Free Liquid Present
- FLP Free Liquid Present
- NOD No Odor Detected

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services

Client Field ID: LFSW02AA

Matrix: WATER

SDG Name:

SA2939

Percent Solids: 0.00

Lab Sample ID: SA2939-001

Concentration Units: ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQLAd	justed MDL
7440-38-2	ARSENIC, TOTAL	3.45	U		MS	5	5.0	3.45
7440-41-7	BERYLLIUM, TOTAL	0.05	U		MS	5	1.0	0.05
7440-43-9	CADMIUM, TOTAL	0.06	В		MS	5	1.0	0.05
7440-47-3	CHROMIUM, TOTAL	0.95	U		MS	5	3.0	0.95
000-03-5	HARDNESS, TOTAL	49500			MS	5	660	50.30
7439-92-1	LEAD, TOTAL	0.34	В		MS	5	1.0	0.15
7439-97-6	MERCURY, TOTAL	0.01	U	N	CV	1	0.20	0.01
7440-02-0	NICKEL, TOTAL	2.4			MS	5	1.0	0.35

Bottle ID: A

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services

Client Field ID: LFSW02AA

Matrix: WATER

SDG Name:

SA2939

Percent Solids: 0.00

Lab Sample ID: SA2939-002

Concentration Units: ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQLA	ljusted MDL
7440-38-2	ARSENIC, DISSOLVED	3.45	U		MS	5	5.0	3.45
7440-41-7	BERYLLIUM, DISSOLVED	0.05	U		MS	5	1.0	0.05
7440-43-9	CADMIUM, DISSOLVED	0.05	U		MS	5	1.0	0.05
7440-47-3	CHROMIUM, DISSOLVED	0.95	U		MS	5	3.0	0.95
000-03-5	HARDNESS, DISSOLVED	46500			MS	5	660	50.30
7439-92-1	LEAD, DISSOLVED	1.1			MS	5	1.0	0.15
7439-97-6	MERCURY, DISSOLVED	0.01	U		CV	1	0.20	0.01
7440-02-0	NICKEL, DISSOLVED	2.1			MS	5	1.0	0.35

Bottle ID: A

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services

Client Field ID: LFSW02AB

Matrix: WATER

SDG Name:

SA2939

Percent Solids: 0.00

Lab Sample ID: SA2939-003

Concentration Units: ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQLAdjus	ted MDL
7440-38-2	ARSENIC, TOTAL	3.45	U		MS	5	5.0	3.45
7440-41-7	BERYLLIUM, TOTAL	0.05	U		MS	5	1.0	0.05
7440-43-9	CADMIUM, TOTAL	0.05	В		MS	5	1.0	0.05
7440-47-3	CHROMIUM, TOTAL	0.95	U		MS	5	3.0	0.95
7439-92-1	LEAD, TOTAL	0.30	В		MS	5	1.0	0.15
7439-97-6	MERCURY, TOTAL	0.01	U	N	CV	1	0.20	0.01
7440-02-0	NICKEL, TOTAL	2.4			MS	5	1.0	0.35

Bottle ID: A

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services Client Field ID: LFSW02AB

Matrix: WATER

SDG Name: SA2939

Percent Solids: 0.00 Lab Sample ID: SA2939-004

Concentration Units: ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQLAdju	sted MDL
7440-38-2	ARSENIC, DISSOLVED	3.45	U		MS	5	5.0	3.45
7440-41-7	BERYLLIUM, DISSOLVED	0.05	U		MS	5	1.0	0.05
7440-43-9	CADMIUM, DISSOLVED	0.05	U		MS	5	1.0	0.05
7440-47-3	CHROMIUM, DISSOLVED	0.95	U		MS	5	3.0	0.95
7439-92-1	LEAD, DISSOLVED	1.8			MS	5	1.0	0.15
7439-97-6	MERCURY, DISSOLVED	0.01	U		CV	1	0.20	0.01
7440-02-0	NICKEL, DISSOLVED	2.0			MS	5	1.0	0.35

Bottle ID: A

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services

Client Field ID: LFSW01AA

Matrix: WATER

SDG Name:

SA2939

Percent Solids: 0.00

Lab Sample ID: SA2939-005

Concentration Units: ug/L

CAS No.	Analyte	Concentration	\mathbf{C}	Q	M	DF	Adjusted PQLAd	justed MDL
7440-38-2	ARSENIC, TOTAL	3.45	U		MS	5	5.0	3.45
7440-41-7	BERYLLIUM, TOTAL	0.05	U		MS	5	1.0	0.05
7440-43-9	CADMIUM, TOTAL	0.05	U		MS	5	1.0	0.05
7440-47-3	CHROMIUM, TOTAL	0.95	U		MS	5	3.0	0.95
000-03-5	HARDNESS, TOTAL	49400			MS	5	660	50.30
7439-92-1	LEAD, TOTAL	0.31	В		MS	5	1.0	0.15
7439-97-6	MERCURY, TOTAL	0.01	U	N	CV	1	0.20	0.01
7440-02-0	NICKEL, TOTAL	2.1			MS	5	1.0	0.35

Bottle ID: A

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services

Client Field ID: LFSW01AA

Matrix: WATER

SDG Name:

SA2939

Percent Solids: 0.00

Lab Sample ID: SA2939-006

Concentration Units: ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQLAdjus	ted MDL
7440-38-2	ARSENIC, DISSOLVED	3.45	U		MS	5	5.0	3.45
7440-41-7	BERYLLIUM, DISSOLVED	0.05	U		MS	5	1.0	0.05
7440-43-9	CADMIUM, DISSOLVED	0.05	U		MS	5	1.0	0.05
7440-47-3	CHROMIUM, DISSOLVED	0.95	U		MS	5	3.0	0.95
000-03-5	HARDNESS, DISSOLVED	46400			MS	5	660	50.30
7439-92-1	LEAD, DISSOLVED	0.77	В		MS	5	1.0	0.15
7439-97-6	MERCURY, DISSOLVED	0.01	U		CV	1	0.20	0.01
7440-02-0	NICKEL, DISSOLVED	1.8			MS	5	1.0	0.35

Bottle ID: A

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services

Client Field ID: EFSW02AA

Matrix: WATER

SDG Name:

SA2939

Percent Solids: 0.00

Lab Sample ID: SA2939-007

Concentration Units: ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQLAd	justed MDL
7440-38-2	ARSENIC, TOTAL	3.45	U		MS	5	5.0	3.45
7440-41-7	BERYLLIUM, TOTAL	0.21	В		MS	5	1.0	0.05
7440-43-9	CADMIUM, TOTAL	0.05	U		MS	5	1.0	0.05
7440-47-3	CHROMIUM, TOTAL	3.1			MS	5	3.0	0.95
000-03-5	HARDNESS, TOTAL	112000			MS	5	660	50.30
7439-92-1	LEAD, TOTAL	3.4			MS	5	1.0	0.15
7439-97-6	MERCURY, TOTAL	0.01	U	N	CV	1	0.20	0.01
7440-02-0	NICKEL. TOTAL	4.5			MS	5	1.0	0.35

Bottle ID: A

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services

Client Field ID: EFSW02AA

Matrix: WATER

SDG Name:

SA2939

Percent Solids: 0.00

Lab Sample ID: SA2939-008

Concentration Units: ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7440-38-2	ARSENIC, DISSOLVED	3.45	U		MS	5	5.0	3.45
7440-41-7	BERYLLIUM, DISSOLVED	0.05	U		MS	5	1.0	0.05
7440-43-9	CADMIUM, DISSOLVED	0.06	В		MS	5	1.0	0.05
7440-47-3	CHROMIUM, DISSOLVED	0.95	U		MS	5	3.0	0.95
000-03-5	HARDNESS, DISSOLVED	102000			MS	5	660	50.30
7439-92-1	LEAD, DISSOLVED	1.4			MS	5	1.0	0.15
7439-97-6	MERCURY, DISSOLVED	0.01	U		CV	1	0.20	0.01
7440-02-0	NICKEL, DISSOLVED	1.1			MS	5	1.0	0.35

Bottle ID: A

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services

Client Field ID: EFSW01AA

Matrix: WATER

SDG Name:

Percent Solids: 0.00

Lab Sample ID: SA2939-009

SA2939

Concentration Units: ug/L

CAS No.	Analyte	Concentration	\mathbf{C}	Q	\mathbf{M}	DF	Adjusted PQLAdj	usted MDL
7440-38-2	ARSENIC, TOTAL	3.45	U		MS	5	5.0	3.45
7440-41-7	BERYLLIUM, TOTAL	0.05	U		MS	5	1.0	0.05
7440-43-9	CADMIUM, TOTAL	0.05	U		MS	5	1.0	0.05
7440-47-3	CHROMIUM, TOTAL	0.95	U		MS	5	3.0	0.95
000-03-5	HARDNESS, TOTAL	105000			MS	5	660	50.30
7439-92-1	LEAD, TOTAL	0.52	В		MS	5	1.0	0.15
7439-97-6	MERCURY, TOTAL	0.01	U	N	CV	1	0.20	0.01
7440-02-0	NICKEL, TOTAL	1.5			MS	5	1.0	0.35

Bottle ID: A

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services

Client Field ID: EFSW01AA

Matrix: WATER

SDG Name:

SA2939

Percent Solids: 0.00

Lab Sample ID: SA2939-010

Concentration Units: ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQLAd	justed MDL
7440-38-2	ARSENIC, DISSOLVED	3.45	U		MS	5	5.0	3.45
7440-41-7	BERYLLIUM, DISSOLVED	0.05	U		MS	5	1.0	0.05
7440-43-9	CADMIUM, DISSOLVED	0.05	U		MS	5	1.0	0.05
7440-47-3	CHROMIUM, DISSOLVED	0.95	U		MS	5	3.0	0.95
000-03-5	HARDNESS, DISSOLVED	97000			MS	5	660	50.30
7439-92-1	LEAD, DISSOLVED	4.0			MS	5	1.0	0.15
7439-97-6	MERCURY, DISSOLVED	0.01	U		CV	1	0.20	0.01
7440-02-0	NICKEL, DISSOLVED	0.92	В		MS	5	1.0	0.35

Bottle ID: A

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INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services

Client Field ID: LFSD01AC

Matrix: WATER

SDG Name:

Percent Solids: 0.00

Lab Sample ID: SA2939-011

SA2939

Concentration Units: ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQLAdjus	sted MDL
7440-38-2	ARSENIC, TOTAL	3.45	U		MS	5	5.0	3.45
7440-41-7	BERYLLIUM, TOTAL	0.05	U		MS	5	1.0	0.05
7440-43-9	CADMIUM, TOTAL	0.05	U		MS	5	1.0	0.05
7440-47-3	CHROMIUM, TOTAL	0.95	U		MS	5	3.0	0.95
7439-92-1	LEAD, TOTAL	0.15	U		MS	5	1.0	0.15
7439-97-6	MERCURY, TOTAL	0.01	U	N	CV	1	0.20	0.01
7440-02-0	NICKEL, TOTAL	0.35	U		MS	5	1.0	0.35

Bottle ID: A

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services

Client Field ID: AJM01AA

Matrix: WATER

SDG Name: SA2939

Percent Solids: 0.00

Lab Sample ID: SA2939-012

Concentration Units: ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQLAdju	sted MDL
7440-38-2	ARSENIC, TOTAL	6.90	U		MS	5	10	6.90
7440-41-7	BERYLLIUM, TOTAL	0.10	U		MS	5	2.0	0.10
7440-43-9	CADMIUM, TOTAL	0.15	В		MS	5	2.0	0.10
7440-47-3	CHROMIUM, TOTAL	139			MS	5	6.0	1.90
7439-92-1	LEAD, TOTAL	3.7			MS	5	2.0	0.30
7439-97-6	MERCURY, TOTAL	0.25	U	N	CV	1	5.0	0.25
7440-02-0	NICKEL, TOTAL	5.6			MS	5	2.0	0.70

Bottle ID: C

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services

Client Field ID: AJM02AA

Matrix: WATER

SDG Name:

Percent Solids: 0.00

Lab Sample ID: SA2939-013

SA2939

Concentration Units: ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQLA	ljusted MDL
7440-38-2	ARSENIC, TOTAL	6.90	U		MS	5	10	6.90
7440-41-7	BERYLLIUM, TOTAL	0.10	U		MS	5	2.0	0.10
7440-43-9	CADMIUM, TOTAL	0.21	В		MS	5	2.0	0.10
7440-47-3	CHROMIUM, TOTAL	132			MS	5	6.0	1.90
7439-92-1	LEAD, TOTAL	3.1			MS	5	2.0	0.30
7439-97-6	MERCURY, TOTAL	0.25	U	N	CV	1	5.0	0.25
7440-02-0	NICKEL, TOTAL	5.2			MS	5	2.0	0.70

Bottle ID: A

1 INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services

Client Field ID: AJM02AB

Matrix: WATER

SDG Name:

Percent Solids: 0.00

Lab Sample ID: SA2939-014

SA2939

Concentration Units: ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQLAdju	sted MDL
7440-38-2	ARSENIC, TOTAL	6.90	U		MS	5	10	6.90
7440-41-7	BERYLLIUM, TOTAL	0.10	U		MS	5	2.0	0.10
7440-43-9	CADMIUM, TOTAL	0.30	В		MS	5	2.0	0.10
7440-47-3	CHROMIUM, TOTAL	127			MS	5	6.0	1.90
7439-92-1	LEAD, TOTAL	3.7			MS	5	2.0	0.30
7439-97-6	MERCURY, TOTAL	0.25	U	N	CV	1	5.0	0.25
7440-02-0	NICKEL, TOTAL	5.4			MS	5	2.0	0.70

Bottle ID: A

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services

Client Field ID: EFSD02AA

Matrix: SOIL

SDG Name:

SA2939

Percent Solids: 55.0

Lab Sample ID: SA2939-015

Concentration Units: mg/Kgdrywt

CAS No.	Analyte	Concentration	C Q	M	DF	Adjusted PQLAdju	usted MDL
7440-38-2	ARSENIC, TOTAL	1.2		MS	5	0.65	0.22
7440-41-7	BERYLLIUM, TOTAL	0.74		MS	5	0.13	0.01
7440-43-9	CADMIUM, TOTAL	0.09	В	MS	5	0.13	0.02
7440-47-3	CHROMIUM, TOTAL	22.1		MS	5	0.39	0.24
7439-92-1	LEAD, TOTAL	17.1		MS	5	0.13	0.04
7439-97-6	MERCURY, TOTAL	0.02	В	CV	1	0.056	0.01
7440-02-0	NICKEL, TOTAL	16.9		MS	5	0.13	0.05

Color Before: N/A

Texture: N/A

Color After: N/A

Clarity After: N/A

Bottle ID: L





Report of Analytical Results

Client: Kristen Durocher

ENSR

Sample Description

EFSD02AA

7041 Old Wake Forest Rd.

Raleigh, NC 27616

Lab Sample ID: SA2939-15

Report Date: 28-JUN-07

Client PO:

Project: 04739-003 MCRRF

SDG: SA2939

Matrix

Date Sampled

Date Received

SL

12-JUN-07

13-JUN-07

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
TOC In Soil	16000 ug/gdrywt	730	LLOYDKAHN	WG40328	21-JUN-07 09:05:11	N/A	N/A	СР	
Total Solids	55. %	1	CLP SOW 788	WG40162	15-JUN-07 09:04:00	CLP SOW 788	14-JUN-07	JF	

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services

Client Field ID: EFSD01AA

Matrix: SOIL

SDG Name:

SA2939

Percent Solids: 55.5

Lab Sample ID: SA2939-016

Concentration Units: mg/Kgdrywt

CAS No.	Analyte	Concentration	C Q	M	DF	Adjusted PQLAdjusted MDL		
7440-38-2	ARSENIC, TOTAL	2.7		MS	5	0.66	0.23	
7440-41-7	BERYLLIUM, TOTAL	0.80		MS	5	0.13	0.01	
7440-43-9	CADMIUM, TOTAL	0.08	В	MS	5	0.13	0.02	
7440-47-3	CHROMIUM, TOTAL	21.9		MS	5	0.40	0.24	
7439-92-1	LEAD, TOTAL	15.6		MS	5	0.13	0.04	
7439-97-6	MERCURY, TOTAL	0.02	В	CV	1	0.055	0.01	
7440-02-0	NICKEL, TOTAL	16.3		MS	5	0.13	0.05	

Bottle ID: A





Report of Analytical Results

Client: Kristen Durocher

ENSR

7041 Old Wake Forest Rd.

Raleigh, NC 27616

Lab Sample ID: SA2939-16 Report Date: 28-JUN-07

Client PO:

Project: 04739-003 MCRRF

SDG: SA2939

Sample Description Matrix Date Sampled **Date Received**

EFSD01AA SL12-JUN-07 13-JUN-07

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
TOC In Soil	16000 ug/gdrywt	720	LLOYDKAHN	WG40328	21-JUN-07 10:17:20	N/A	N/A	СР	
Total Solids	56. %	1	CLP SOW 788	WG40162	15-JUN-07 09:02:00	CLP SOW 788	14-JUN-07	JF	

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services

Client Field ID: LFSD02AA

Matrix: SOIL

SDG Name:

SA2939

Percent Solids: 31.2

Lab Sample ID: SA2939-017

Concentration Units: mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q M	DF	Adjusted PQLA	Adjusted MDL
7440-38-2	ARSENIC, TOTAL	1.4		MS	5	1.2	0.40
7440-41-7	BERYLLIUM, TOTAL	1.0		MS	5	0.24	0.02
7440-43-9	CADMIUM, TOTAL	0.17	В	MS	5	0.24	0.04
7440-47-3	CHROMIUM, TOTAL	27.2		MS	5	0.70	0.42
7439-92-1	LEAD, TOTAL	17.4		MS	5	0.24	0.07
7439-97-6	MERCURY, TOTAL	0.04	В	CV	1	0.10	0.02
7440-02-0	NICKEL, TOTAL	19.5		MS	5	0.24	0.08

Bottle ID: A





Report of Analytical Results

Client: Kristen Durocher

ENSR

7041 Old Wake Forest Rd.

Raleigh, NC 27616

Lab Sample ID: SA2939-17 Report Date: 28-JUN-07

Client PO:

SL

Project: 04739-003 MCRRF

SDG: SA2939

Sample Description

LFSD02AA

Matrix Date Sampled **Date Received**

12-JUN-07 13-JUN-07

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anai. Date	Prep. Method	Prep. Date	Analyst	Footnotes
TOC In Soil	43000 ug/gdrywt	1300	LLOYDKAHN	WG40328	21-JUN-07 11:01:03	N/A	N/A	СР	
Total Solids	31. %	1	CLP SOW 788	WG40162	15-JUN-07 09:05:00	CLP SOW 788	14-JUN-07	JF	

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services

Client Field ID: LFSD02AB

Matrix: SOIL

SDG Name:

Percent Solids: 32.8

Lab Sample ID: SA2939-018

SA2939

Concentration Units: mg/Kgdrywt

CAS No.	Analyte	Concentration	C Q	M	DF	Adjusted PQLAdjı	usted MDL
7440-38-2	ARSENIC, TOTAL	1.6		MS	. 5	1.3	0.46
7440-41-7	BERYLLIUM, TOTAL	1.1		MS	5	0.27	0.03
7440-43-9	CADMIUM, TOTAL	0.17	В	MS	5	0.27	0.04
7440-47-3	CHROMIUM, TOTAL	29.8		MS	5	0.81	0.49
7439-92-1	LEAD, TOTAL	18.8		MS	5	0.27	0.08
7439-97-6	MERCURY, TOTAL	0.04	В	CV	1	0.091	0.02
7440-02-0	NICKEL, TOTAL	21.6		MS	5	0.27	0.09

Bottle ID: A





Report of Analytical Results

Client: Kristen Durocher

ENSR

7041 Old Wake Forest Rd.

Raleigh, NC 27616

Lab Sample ID: SA2939-18

Report Date: 28-JUN-07

Client PO:

Project: 04739-003 MCRRF

SDG: SA2939

Sample Description

LFSD02AB

Matrix

Date Sampled

Date Received

SL

12-JUN-07

13-JUN-07

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	33. %	l	CLP SOW 788	WG40162	15-JUN-07 09:06:00	CLP SOW 788	14-JUN-07	JF	

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services

Client Field ID: LFSD01AA

Matrix: SOIL

SDG Name:

Percent Solids: 37.3

Lab Sample ID: SA2939-019

SA2939

Concentration Units: mg/Kgdrywt

CAS No.	Analyte	Concentration	C Q	M	DF	Adjusted PQLAdjı	isted MDL
7440-38-2	ARSENIC, TOTAL	1.2		MS	5	1.2	0.41
7440-41-7	BERYLLIUM, TOTAL	0.86		MS	5	0.24	0.02
7440-43-9	CADMIUM, TOTAL	0.19	В	MS	5	0.24	0.04
7440-47-3	CHROMIUM, TOTAL	24.3		MS	5	0.73	0.44
7439-92-1	LEAD, TOTAL	15.8		MS	5	0.24	0.07
7439-97-6	MERCURY, TOTAL	0.04	В	CV	1	0.069	0.01
7440-02-0	NICKEL, TOTAL	18.0		MS	5	0.24	0.09

Bottle ID: A





Report of Analytical Results

Client: Kristen Durocher

ENSR

7041 Old Wake Forest Rd.

Raleigh, NC 27616

Lab Sample ID: SA2939-19

Report Date: 28-JUN-07 **Client PO:**

Project: 04739-003 MCRRF

SDG: SA2939

Sample Description

LFSD01AA

Matrix Date Sampled **Date Received**

SL12-JUN-07 13-JUN-07

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
TOC In Soil	41000 ug/gdrywt	1100	LLOYDKAHN	WG40328	21-JUN-07 11:15:13	N/A	N/A	СР	
Total Solids	37. %	1	CLP SOW 788	WG40162	15-JUN-07 09:07:00	CLP SOW 788	14-JUN-07	JF	

3P PREPARATION BLANKS

Lab Name: Katahdin Analytical Services

Sample ID: PBSXF14ICS0

Matrix: SOIL

SDG Name: SA2939

QC Batch ID: XF14ICS0

Analyte	RESULT	C	
ARSENIC	0.170	U	
BERYLLIUM	0.010	U	
CADMIUM	0.010	U	
CHROMIUM	0.180	U	
LEAD	0.084	В	
NICKEL	0.035	В	

7 LABORATORY CONTROL SAMPLES

Lab Name: Katahdin Analytical Services Sample ID: LCSSXF14ICS0

Matrix: SOIL SDG Name: SA2939

QC Batch ID: XF14ICS0

Analyte	TRUE	FOUND	% R	LIMIT	` ′
ARSENIC	289.0	269.88	93.4	81	119
BERYLLIUM	54.4	52.89	97.2	83	117
CADMIUM	101.0	101.52	100.5	82	118
CHROMIUM	224.0	239.69	107.0	80	120
LEAD	158.0	154.27	97.6	82	118
NICKEL	120.0	116.67	97.2	83	118

3P PREPARATION BLANKS

Lab Name: Katahdin Analytical Services

Sample ID: PBSXF27HGS0

Matrix: SOIL

SDG Name: SA2939

QC Batch ID: XF27HGS0

 $\textbf{Concentration Units:} \ mg/Kgdrywt$

Analyte	RESULT	C	
MERCURY	0.010	U	

7 LABORATORY CONTROL SAMPLES

Lab Name: Katahdin Analytical Services

Sample ID: LCSSXF27HGS0

Matrix: SOIL

SDG Name: SA2939

QC Batch ID: XF27HGS0

Analyte	TRUE	FOUND	% R	LIMITS (%)
MERCURY	5.2	4.79	92.1	66 133

3P PREPARATION BLANKS

Lab Name: Katahdin Analytical Services Sample ID: PBSXG02HGS0

Matrix: SOIL SDG Name: SA2939

QC Batch ID: XG02HGS0

Analyte	RESULT	C	
MERCURY	0.010	U	

7 LABORATORY CONTROL SAMPLES

Lab Name: Katahdin Analytical Services Sample ID: LCSSXG02HGS0

Matrix: SOIL SDG Name: SA2939

QC Batch ID: XG02HGS0

Analyte	TRUE	FOUND	% R	LIMIT	S (%)
MERCURY	5.2	5.18	99.6	66	133

3P PREPARATION BLANKS

Lab Name: Katahdin Analytical Services

Sample ID: PBWXF15ICW3

Matrix: WATER

SDG Name: SA2939

QC Batch ID: XF15ICW3

Analyte	RESULT	С	
ARSENIC	3.470	U	
BERYLLIUM	-0.102	В	
CADMIUM	-0.032	В	
CALCIUM	27.850	U	
CHROMIUM	0.960	U	
LEAD	0.140	U	
MAGNESIUM	6.600	U	
NICKEL	0.330	U	

7 LABORATORY CONTROL SAMPLES

Lab Name: Katahdin Analytical Services

Sample ID: LCSWXF15ICW3

Matrix: WATER

SDG Name: SA2939

QC Batch ID: XF15ICW3

Analyte	TRUE	FOUND	% R	LIMIT	S (%)
ARSENIC	500.0	476.20	95.2	80	120
BERYLLIUM	50.0	43.14	86.3	80	120
CADMIUM	250.0	244.80	97.9	80	120
CALCIUM	2500.0	2172.00	86.9	80	120
CHROMIUM	200.0	193.30	96.7	80	120
LEAD	500.0	474.20	94.8	80	120
MAGNESIUM	5000.0	4970.00	99.4	80	120
NICKEL	500.0	475.30	95.1	80	120

3P PREPARATION BLANKS

Lab Name: Katahdin Analytical Services

Sample ID: PBWXF19HGW1

Matrix: WATER

SDG Name: SA2939

QC Batch ID: XF19HGW1

Analyte	RESULT	C	
MERCURY	-0.081	В	

7 LABORATORY CONTROL SAMPLES

Lab Name: Katahdin Analytical Services

Sample ID: LCSWXF19HGW1

Matrix: WATER

SDG Name: SA2939

QC Batch ID: XF19HGW1

Analyte	TRUE	FOUND	% R	LIMITS (%	%)
MERCURY	5.0	5.53	110.6	80 1	120

5A SPIKE SAMPLE RECOVERY

Lab Name: Katahdin Analytical Services

Client Field ID: AJM01AAS

Matrix: WATER

SDG Name:

SA2939

Percent Solids: 0.00

Lab Sample ID: SA2939-012S

Concentration Units: ug/L

	Spiked	Sample	Spike	(Control Limits (%R)				
Analyte	Sample Result C	Result C	Added	%R Q	Low	High	M		
ARSENIC, TOTAL	1042.0000	0.2014 U	1000	104.2	75	125	MS		
BERYLLIUM, TOTAL	102.7400	0.0441 U	100	102.7	75	125	MS		
CADMIUM, TOTAL	490.4000	0.1479 B	500	98.1	75	125	MS		
CHROMIUM, TOTAL	465.0000	138.6000	400	81.6	75	125	MS		
LEAD, TOTAL	899.0000	3.7450	1000	89.5	. 75	125	MS		
MERCURY, TOTAL	16.8500	-1.8750 U	25	67.4 N	75	125	CV		
NICKEL, TOTAL	891.8000	5.5890	1000	88.6	75	125	MS		

5A SPIKE SAMPLE RECOVERY

Lab Name: Katahdin Analytical Services

Client Field ID: AJM01AAS

Matrix: WATER

SDG Name:

SA2939

Percent Solids: 0.00

Lab Sample ID: SA2939-012P

Concentration Units: ug/L

	Spiked	Sample	Spike	(Control Li	mits (%R)	
Analyte	Sample Result C	Result C	Added	%R Q	Low	High	M
ARSENIC, TOTAL	1076.4000	0.2014 U	1000	107.6	75	125	MS
BERYLLIUM, TOTAL	103.5600	0.0441 U	100	103.6	75	125	MS
CADMIUM, TOTAL	515.8000	0.1479 B	500	103.1	75	125	MS
CHROMIUM, TOTAL	472.2000	138.6000	400	83.4	75	125	MS
LEAD, TOTAL	929.8000	3.7450	1000	92.6	75	125	MS
MERCURY, TOTAL	16.5250	-1.8750 U	25	66.1 N	75	125	CV
NICKEL, TOTAL	918.4000	5.5890	1000	91.3	75	125	MS

5D SPIKE DUPLICATES

Lab Name: Katahdin Analytical Services

Client Field ID: AJM01AA

Matrix: WATER

SDG Name:

SA2939

Percent Solids: 0.00

Lab Sample ID: SA2939-012

Concentration Units: ug/L

Analyte	Control Limits	Spike Result (C Spike Dup. Result C	RPD (Q M
ARSENIC, TOTAL		1042.0000	1076.4000	3.2	MS
BERYLLIUM, TOTAL		102.7400	103.5600	0.8	MS
CADMIUM, TOTAL		490.4000	515.8000	5.0	MS
CHROMIUM, TOTAL		465.0000	472.2000	1.5	MS
LEAD, TOTAL		899.0000	929.8000	3.4	MS
MERCURY, TOTAL	5	16.8500	16.5250	1.9	CV
NICKEL, TOTAL		891.8000	918.4000	2.9	MS

9 ICP SERIAL DILUTION

Lab Name: Katahdin Analytical Services

Client Field ID: AJM01AAL

Matrix: WATER

SDG Name:

SA2939

Lab Sample ID: SA2939-012L

Analyte	Sample Result	\mathbf{C}	Dilution Result	C	% Difference	Q	M
ARSENIC, TOTAL	0.02	U	-0.22	U			MS
BERYLLIUM, TOTAL	0.00	U	0.06	В			MS
CADMIUM, TOTAL	0.01	В	0.08	В	700.0		MS
CHROMIUM, TOTAL	13.86		14.48	В	4.5		MS
LEAD, TOTAL	0.37	В	0.34	В	8.1		MS
MERCURY, TOTAL	-0.07	U	-0.40	U			CV
NICKEL, TOTAL	0.56	В	0.58	В	3.6		MS

5A SPIKE SAMPLE RECOVERY

Lab Name: Katahdin Analytical Services

Client Field ID: EFSD01AAS

Matrix: SOIL

SDG Name:

SA2939

Percent Solids: 55.5

Lab Sample ID: SA2939-016S

Concentration Units: mg/Kgdrywt

	Spiked	Sample	Spike		Control Li	nits (%R)	
Analyte	Sample Result C	Result C	Added	%R	Q Low	High	\mathbf{M}
ARSENIC, TOTAL	66.3457	2.6805	67.21	94.7	75	125	MS
BERYLLIUM, TOTAL	6.6561	0.7953	6.72	87.2	75	125	MS
CADMIUM, TOTAL	34.1810	0.0793 B	33.6	101.5	75	125	MS
CHROMIUM, TOTAL	47.7431	21.8783	26.88	96.2	75	125	MS
LEAD, TOTAL	76.9374	15.6539	67.21	91.2	75	125	MS
MERCURY, TOTAL	0.2557	0.0211 B	0.27	86.9	75	125	CV
NICKEL, TOTAL	79.8676	16.2631	67.21	94.6	75	125	MS

5A SPIKE SAMPLE RECOVERY

Lab Name: Katahdin Analytical Services

Client Field ID: EFSD01AAS

Matrix: SOIL

SDG Name:

SA2939

Percent Solids: 55.5

Lab Sample ID: SA2939-016P

Concentration Units: mg/Kgdrywt

	Spiked	Sample	Spike		Control Li	mits (%R)	
Analyte	Sample Result C	Result C	Added	%R Q) Low	High	M
ARSENIC, TOTAL	65.4941	2.6805	66.71	94.2	75	125	MS
BERYLLIUM, TOTAL	6.3786	0.7953	6.67	83.7	75	125	MS
CADMIUM, TOTAL	33.6076	0.0793 B	33.35	100.5	75	125	MS
CHROMIUM, TOTAL	46.3755	21.8783	26.68	91.8	75	125	MS
LEAD, TOTAL	75.6070	15.6539	66.71	89.9	75	125	MS
MERCURY, TOTAL	0.2860	0.0211 B	0.27	98.1	75	125	CV
NICKEL, TOTAL	78.4888	16.2631	66.71	93.3	75	125	MS

5D SPIKE DUPLICATES

Lab Name: Katahdin Analytical Services

Client Field ID: EFSD01AA

Matrix: SOIL

SDG Name:

SA2939

Percent Solids: 55.5

Lab Sample ID: SA2939-016

Concentration Units: mg/Kgdrywt

Analyte	Control Limits	Spike Result	C Spike Dup. Result C	RPD	Q	M
ARSENIC, TOTAL		66.3457	65.4941	1.3		MS
BERYLLIUM, TOTAL	1.3	6.6561	6.3786	4.3		MS
CADMIUM, TOTAL		34.1810	33.6076	1.7		MS
CHROMIUM, TOTAL		47.7431	46.3755	2.9		MS
LEAD, TOTAL		76.9374	75.6070	1.7		MS
MERCURY, TOTAL	0.054	0.2557	0.2860	11.2		CV
NICKEL, TOTAL		79.8676	78.4888	1.7		MS

9 ICP SERIAL DILUTION

Lab Name: Katahdin Analytical Services

Client Field ID: EFSD01AAL

Matrix: SOIL

SDG Name:

SA2939

Lab Sample ID: SA2939-016L

Analyte	Sample Result	\mathbf{C}	Dilution Result	C	% Difference	Q	M
ARSENIC, TOTAL	4.05	В	3.92	В	3.2		MS
BERYLLIUM, TOTAL	1.20		1.28	В	6.7		MS
CADMIUM, TOTAL	0.12	В	0.14	U	100.0		MS
CHROMIUM, TOTAL	33.04		32.97		0.2		MS
LEAD, TOTAL	23.64		23.82		0.8		MS
MERCURY, TOTAL	0.08	В	0.06	U	100.0		CV
NICKEL, TOTAL	24.56		25.11		2.2		MS





Blank Sample Summary Report

TOC in Soil

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	<u>PQL</u>
MBLANK	WG40328	Lloyd Kahn	21-JUN-07	N/A	U 400 ug/gdrywt	00 ug/gdryw
Total Solids						
Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL
MBLANK	WG40162	CLP SOW 788	15-JUN-07	14-JUN-07	U 1 %	1 %





Laboratory Control Sample Summary Report

TOC In Soil

Lab Sample Id	Samp Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amt.	Result	Recovery	Acceptance Range	RPD
WG40328-2 Total Solids	LCS	WG40328	21-JUN-07	N/A	ug/gdrywt	400000.000	420000	105	80-120	
Lab Sample Id	Samp Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amt.	Result	Recovery	Acceptance Range	RPD
WG40162-2	LCS	WG40162	15-JUN-07	14-JUN-07	%	90	90.	100	80-120	





Duplicate Sample Summary Report

TOC In Soil

Duplicate Sample ID	Original Sample ID	QC Batch	Analysis Date	Result Units	Sample Result	Duplicate Result	RPD(%)	RPD Limit	
WG40328-3	SA2939-15	WG40328	21-JUN-07	ug/gdrywt	16000	17000	5*		
Total Solids									
Duplicate Sample ID	Original Sample ID	QC Batch	Analysis Date	Result Units	Sample Result	Duplicate Result	RPD(%)	RPD Limit	
WG40162-3	SA2939-16	WG40162	15-JUN-07	%	56.	56.	0	20	





Matrix Spike Sample Summary Report

TOC In Soil

Matrix Spike Sample ID	Sample Type	Original Sample ID	QC Batch	Analysis Date	Result Units	Spike Amount	Sample Result	MS Result	Recovery (%)	Recovery Limit	
WG40328-4	MS	SA2939-15	WG40328	21-JUN-07	ug/gdrywt	108661.8	16000	140000	118	75 - 125	

Ratanum Analytical Services, inc. Sample necelbi Condition Report Sampled By: Chenk Client: ENSR KAS PM: AJC KIMS Entry By: Project: Delivered By: FEDEX KAS Work Order#: 5A 2939 KIMS Review By: ATC Received By: D SDG #: Cooler: U: Date/Time Rec.: 00307 1000 of _1 EX* Receipt Criteria Υ Ν NA Comments and/or Resolution 1. Custody seals present / intact? χ 2. Chain of Custody present in cooler? 3. Chain of Custody signed by client? 4. Chain of Custody matches samples? 5. Temperature Blanks present? Temp (°C): 1. 6. Samples received at < 6 °C w/o freezing? Cooler temp. (°C): X (Ice or ice packs present? (if no temp blank) 7. Volatiles free of headspace? Aqueous: No bubble larger than a pea Soil/Sediment: Received in airtight container? Received in methanol? Methanol covering soil? 8. Trip Blank present in cooler? Χ 9. Proper sample containers and volume? 10. Samples within hold time upon receipt? 11. Aqueous samples properly preserved? Metals Samples (unfiltered) were Χ Metals, COD, NH3, TKN, O/G, phenol, preserved with HNO's by lab TPO4, N+N, TOC, DRO, TPH - pH <2 Х Sulfide - >9 Cyanide - pH >12 12. Corrective Action Report Filed? * Log-In Notes to Exceptions: document any problems with samples or discrepancies or pH adjustments * Sompto: LFS DOZAA (SL) For sample LFS002AB Jar Soys LESDOZAB (SL) metals. All other sars LESDOIAA (SL)

soud metals and TOC. COC are labeled as being sempled on Wirlan by client 10 checked off for Tocker but coc says while this sample.

10/12 11 10 mod for Kristen

Toc not readed



CHAIN of CUSTODY

Fax: (207) 775-4029				PRI	NT LEG	IBLY IN	I PEN		Page		of
Kristen Durcher E		Contact			Phone #	87.	<u></u>	00	ax #		
Address 7041 Old Wate Fore	strough	103 4	Raloi	oh s	State	NC		Zip Coc	le 2:	\mathcal{H}_{α}	160
Purchase Order #	Proj. Name / N	10. MC	RRF	100	7.430	3003	Katahdi	n Quote	#	(60	<u>. C</u>
Bill (if different than above)		Addr					۷				
Sampler (Print / Sign) Kisten Duroc	hor	The second	1)11			Сор	ies To:	K. D	11-	xh	
LAB USE ONLY WORK ORDER #: SA293	7				MALYS	S AND (ER TYP			
KATAHDIN PROJECT NUME	BER		Filt. Y®N□Y®	Filt. N □Y S in	Filt.	Filt.	Filt. □Y X JN	Filt	Filt. □Y 🕬N	Filt. □Y □N	Filt.
SHIPPING INFO:	☐ CLIEN	NT	eservie NVC.	a C.	CA, C.	A A	hardness	CLS A			
TEMP°C	T 🗆 NOT I	NTACT	prasa Ceserl	3,5	\$ 5	र्ने	کے	SF 1	لَّ		100
* Sample Description Date / Time coll'd	Matrix	No. of Cntrs.	p 6	A. 5	A A	Proved	يثم	यु	5		Particular of the American
- The second sec	200 SD 850 SW	1	×	×		X			<u>×</u>		,
LESWOZAA //08	50		×		×		×				
LESWOZAB /08	50	1	X	×			•				
LFSWOIAA /08	145	1	*		×		X				
LFSWOIAA /08	45	1	*	*		×					
	50	1	X		х						
	30	1	×	×		×					
	30	,	×.		火		×				
LESDOIAC /08	25	1	×	*							
EFSWOIAA /113	20	1	*		*		Х				
	20 1)	. *	Х		X.					
AJMOIAA 6/11/08	125 ag	3		X				×			
ATMOZAA 1/083	35 aq	١		*							
ATM02 AB 1/08	35 ag	1		*							
EFSDOIAA 2007/114		3		X				X	X		
FSDO2AA 618107/09 FSDO1AA 618107/09 FSDO1AA 618107/09	10 SD 10 SD	+		*					×	5	
DMMENTS COC tapes						·		L		<u></u>	
Relinguished By: (Signature) Date / Time SF	75 9 39 Received By: (Sig	nature\	Polinguist	and Pur (C:	anot	T	,				
6/12/ 1750 g	Received By: (Sig	£592	Relinquish	ieu by: (Si	ynature)	Date	e / Time	e Re	ceived By	y: (Signat	:ure)
	Received By: (Sig	nature)	Relinquish	ed By: (Si	gnature)	- —— Date		- — Red	eived By	v: (Signat	ure)

THE TERMS AND CONTRACTION A SIGNED CONTRACTION ASSERVICES EXCEPT WHEN A SIGNED CONTRACTION OF THE TERMS AND CONTRACTION ASSERVICES EXCEPT WHEN A SIGNED CONTRACTION OF THE TERMS AND CONTRACTI

Received By: (Signature)



Katahdin Analytical Services

Login Chain of Custody Report (Ino1)

Jun. 14, 2007 08:28 AM

NoWeb

Collect

Date/Time

Login Number: SA2939

Account: ENSR002

ENSR

Project:

rimary Report Address:

Kristen Durocher

ENSR

7041 Old Wake Forest Rd.

Suite 103

Raleigh, NC 27616

rimary Invoice Address:

Kristen Durocher

ENSR

7041 Old Wake Forest Rd.

Sample Number

Suite 103

Laboratory

Sample ID

Raleigh, NC 27616

Login Information

ANALYSIS INSTRUCTIONS : Lab needs to filter & pres dissolved metals.

Page: 1 of 5

CHECK NO.

CLIENT PO#

COOLER TEMPERATURE : 1.1 **DELIVERY SERVICES** : FEDEX **EDD FORMAT** : WEST-XLS

MAIL DATE

PΜ : AJC

PROJECT NAME : 04739-003 MCRRF

Verbal

Date

QC LEVEL :][+

REGULATORY LIST

Receive

Date

REPORT INSTRUCTIONS : Rpt to MDL. Suppress Ca & Mg. Send copy on

Due

Date

Comments

SDG ID

PR

SDG STATUS

eport CC Addresses: voice CC Addresses:

SA2939-1		FSW02AA	12-JUN-07	08:50	13-JUN-07	· · · · · · · · · · · · · · · · · · ·	02-JUL-07	
								
Matrix		Product	Hold Date (shortest)		Туре	Bottle Count		
Aqueous	S		09-DEC-07	125mi	L Plastic+HNO3			
Aqueous	\$	SW3010-PREP	09-DEC-07					
Aqueous	S	SW6020-ARSENIC	09-DEC-07		L Plastic+HNO3	1		
Aqueous	S	SW6020-BERYLLIUM	09-DEC-07	250ml	L Plastic+HNO3			
Aqueous	S	SW6020-CADMIUM	09-DEC-07	250ml	L Plastic+HNO3			
Aqueous	S	SW6020-CALCIUM	09-DEC-07					
Aqueous	S	SW6020-CHROMIUM	09-DEC-07	250ml	L Plastic+HNO3			
Aqueous	S	SW6020-LEAD	09-DEC-07	250ml	L Plastic+HNO3			
Aqueous	S	SW6020-MAGNESIUM	09-DEC-07					
Aqueous	S	SW6020-NICKEL	09-DEC-07	250ml	L Plastic+HNO3			
Aqueous	S	SW7470-MERCURY	10-JUL-07	500ml	L Plastic+HNO3			
SA2939-2	L	FSW02AA	12-JUN-07	08:50	13-JUN-07		02-JUL-07	
Matrix		Product	Hold Date (shortest)	Bottle	Type	Bottle Count		
Aqueous	s		7					
Aqueous	s	SM2340B-HARDNESS	09-DEC-07	125ml	_ Plastic+HNO3	1		
Aqueous	S	SW3010-PREP	09-DEC-07	,		•		
Aqueous	s	SW6020-ARSENIC-DIS	09-DEC-07	250mi	_ Plastic+HNO3			
Aqueous	s	SW6020-BERYLLIUM-DIS	09-DEC-07		Plastic+HNO3			
Aqueous	S	SW6020-CADMIUM-DIS	09-DEC-07		_ Plastic+HNO3			
Aqueous	S	SW6020-CALCIUM	09-DEC-07	2001111				
Aqueous	S	SW6020-CHROMIUM-DIS	09-DEC-07	250ml	_ Plastic+HNO3			
Aqueous	S	SW6020-LEAD-DIS	09-DEC-07		Plastic+HNO3			
Aqueous	s	SW6020-LLAD-DIS	09-DEC-07	2001110				
Aqueous	S	SW6020-NICKEL-DIS	09-DEC-07	250ml	Plastic+HNO3			
Aqueous	S		10-JUL-07		_ Plastic+HNO3			
SA2939-3	-	FSW02AB	12-JUN-07 (13-JUN-07		02-JUL-07	
Matrix		Product	Hold Date (shortest)	Bottle	Туре	Bottle Count		
Aqueous	S	SW3010-PREP	09-DEC-07					
Aqueous	S	SW6020-ARSENIC	09-DEC-07		Plastic+HNO3	1		
Aqueous	S	SW6020-BERYLLIUM	09-DEC-07		Plastic+HNO3			
Aqueous	S	SW6020-CADMIUM	09-DEC-07		Plastic+HNO3			
Aqueous	S	SW6020-CHROMIUM	09-DEC-07	250mL	. Plastic+HNO3			
Aqueous	S	SW6020-LEAD	09-DEC-07	250mL	Plastic+HNO3			
Aqueous	S	SW6020-NICKEL	09-DEC-07		. Plastic+HNO3			
Aqueous	S	SW7470-MERCURY	10-JUL-07	500mL	. Plastic+HNO3			



Page: 2 of 5

Jun. 14, 2007 08:28 AM

Login Number: SA2939

Account: ENSR002 ENSR NoWeb

Project:

Laboratory Sample ID Client Sample Number Collect Date/Time Receive Date Verbal PR Due Date SA2939-4 LFSW02AB 12-JUN-07 08:50 13-JUN-07 02-JUL-07 Matrix Product Hold Date (shortest) Bottle Type Bottle Count Aqueous S FILTERING 1 Aqueous S SW3010-PREP 09-DEC-07 250mL Plastic+HNO3 Aqueous S SW6020-ARSENIC-DIS 09-DEC-07 250mL Plastic+HNO3 40000 Aqueous S SW6020-BERYLLIUM-DIS 09-DEC-07 250mL Plastic+HNO3 40000 Aqueous S SW6020-CADMIUM-DIS 09-DEC-07 250mL Plastic+HNO3 40000 Aqueous S SW6020-LEAD-DIS 09-DEC-07 250mL Plastic+HNO3 40000 Aqueous S SW6020-NICKEL-DIS 09-DEC-07 250mL Plastic+HNO3 40000 Aqueous S SW6020-NICKEL-DIS 09-DEC-07 250mL Plastic+HNO3 40000 Aqueous S SW6020-NICKEL-DIS 09-DEC-07 250mL Plastic+HNO3 40000 40000 40000 40000 40000 40000 40000 40000 40000 40000 40000 40000 40000 40000 40000 40000 40000	
Matrix Product Hold Date (shortest) Bottle Type Bottle Count Aqueous S FILTERING 1 Aqueous S SW3010-PREP 09-DEC-07 1 Aqueous S SW6020-ARSENIC-DIS 09-DEC-07 250mL Plastic+HNO3 Aqueous S SW6020-BERYLLIUM-DIS 09-DEC-07 250mL Plastic+HNO3 Aqueous S SW6020-CADMIUM-DIS 09-DEC-07 250mL Plastic+HNO3 Aqueous S SW6020-LEAD-DIS 09-DEC-07 250mL Plastic+HNO3 Aqueous S SW6020-NICKEL-DIS 09-DEC-07 250mL Plastic+HNO3 Aqueous S SW6020-NICKEL-DIS 09-DEC-07 250mL Plastic+HNO3 Aqueous S SW7470-MERCURY-DIS 10-JUL-07 500mL Plastic+HNO3	
Aqueous S FILTERING Aqueous S SW3010-PREP 09-DEC-07 1 Aqueous S SW6020-ARSENIC-DIS 09-DEC-07 250mL Plastic+HNO3 Aqueous S SW6020-BERYLLIUM-DIS 09-DEC-07 250mL Plastic+HNO3 Aqueous S SW6020-CADMIUM-DIS 09-DEC-07 250mL Plastic+HNO3 Aqueous S SW6020-CHROMIUM-DIS 09-DEC-07 250mL Plastic+HNO3 Aqueous S SW6020-LEAD-DIS 09-DEC-07 250mL Plastic+HNO3 Aqueous S SW6020-NICKEL-DIS 09-DEC-07 250mL Plastic+HNO3 Aqueous S SW7470-MERCURY-DIS 10-JUL-07 500mL Plastic+HNO3	
Aqueous S SW3010-PREP 09-DEC-07 1 Aqueous S SW6020-ARSENIC-DIS 09-DEC-07 250mL Plastic+HNO3 Aqueous S SW6020-BERYLLIUM-DIS 09-DEC-07 250mL Plastic+HNO3 Aqueous S SW6020-CADMIUM-DIS 09-DEC-07 250mL Plastic+HNO3 Aqueous S SW6020-CHROMIUM-DIS 09-DEC-07 250mL Plastic+HNO3 Aqueous S SW6020-LEAD-DIS 09-DEC-07 250mL Plastic+HNO3 Aqueous S SW6020-NICKEL-DIS 09-DEC-07 250mL Plastic+HNO3 Aqueous S SW7470-MERCURY-DIS 10-JUL-07 500mL Plastic+HNO3	
Aqueous S SW6020-ARSENIC-DIS 09-DEC-07 250mL Plastic+HNO3 Aqueous S SW6020-BERYLLIUM-DIS 09-DEC-07 250mL Plastic+HNO3 Aqueous S SW6020-CADMIUM-DIS 09-DEC-07 250mL Plastic+HNO3 Aqueous S SW6020-CHROMIUM-DIS 09-DEC-07 250mL Plastic+HNO3 Aqueous S SW6020-LEAD-DIS 09-DEC-07 250mL Plastic+HNO3 Aqueous S SW6020-NICKEL-DIS 09-DEC-07 250mL Plastic+HNO3 Aqueous S SW7470-MERCURY-DIS 10-JUL-07 500mL Plastic+HNO3	
Aqueous S SW6020-BERYLLIUM-DIS 09-DEC-07 250mL Plastic+HNO3 Aqueous S SW6020-CADMIUM-DIS 09-DEC-07 250mL Plastic+HNO3 Aqueous S SW6020-CHROMIUM-DIS 09-DEC-07 250mL Plastic+HNO3 Aqueous S SW6020-LEAD-DIS 09-DEC-07 250mL Plastic+HNO3 Aqueous S SW6020-NICKEL-DIS 09-DEC-07 250mL Plastic+HNO3 Aqueous S SW7470-MERCURY-DIS 10-JUL-07 500mL Plastic+HNO3	
Aqueous S SW6020-CADMIUM-DIS 09-DEC-07 250mL Plastic+HNO3 Aqueous S SW6020-CHROMIUM-DIS 09-DEC-07 250mL Plastic+HNO3 Aqueous S SW6020-LEAD-DIS 09-DEC-07 250mL Plastic+HNO3 Aqueous S SW6020-NICKEL-DIS 09-DEC-07 250mL Plastic+HNO3 Aqueous S SW7470-MERCURY-DIS 10-JUL-07 500mL Plastic+HNO3	
Aqueous S SW6020-CHROMIUM-DIS 09-DEC-07 250mL Plastic+HNO3 Aqueous S SW6020-LEAD-DIS 09-DEC-07 250mL Plastic+HNO3 Aqueous S SW6020-NICKEL-DIS 09-DEC-07 250mL Plastic+HNO3 Aqueous S SW7470-MERCURY-DIS 10-JUL-07 500mL Plastic+HNO3	
Aqueous S SW6020-LEAD-DIS 09-DEC-07 250mL Plastic+HNO3 Aqueous S SW6020-NICKEL-DIS 09-DEC-07 250mL Plastic+HNO3 Aqueous S SW7470-MERCURY-DIS 10-JUL-07 500mL Plastic+HNO3	
Aqueous S SW6020-NICKEL-DIS 09-DEC-07 250mL Plastic+HNO3 Aqueous S SW7470-MERCURY-DIS 10-JUL-07 500mL Plastic+HNO3	
Aqueous S SW7470-MERCURY-DIS 10-JUL-07 500mL Plastic+HNO3	
SA2939-5 LFSW01AA 12-JUN-07 08:45 13-JUN-07 02-JUL-07	
Matrix Product Hold Date (shortest) Bottle Type Bottle Count	
Aqueous S SM2340B-HARDNESS 09-DEC-07 125mL Plastic+HNO3	
Aqueous S SW3010-PREP 09-DEC-07	
Aqueous S SW6020-ARSENIC 09-DEC-07 250mL Plastic+HNO3 1	
Aqueous S SW6020-BERYLLIUM 09-DEC-07 250mL Plastic+HNO3	
Aqueous S SW6020-CADMIUM 09-DEC-07 250mL Plastic+HNO3	
Aqueous S SW6020-CALCIUM 09-DEC-07	
Aqueous S SW6020-CHROMIUM 09-DEC-07 250mL Plastic+HNO3	
Aqueous S SW6020-LEAD 09-DEC-07 250mL Plastic+HNO3	
Aqueous S SW6020-MAGNESIUM 09-DEC-07	İ
Aqueous S SW6020-NICKEL 09-DEC-07 250mL Plastic+HNO3	
Aqueous S SW7470-MERCURY 10-JUL-07 500mL Plastic+HNO3	
SA2939-6 LFSW01AA 12-JUN-07 08:45 13-JUN-07 02-JUL-07	
Matrix Product Hold Date (shortest) Bottle Type Bottle Count	
Aqueous S FILTERING	
Aqueous S SM2340B-HARDNESS 09-DEC-07 125mL Plastic+HNO3 1	
Aqueous S SW3010-PREP 09-DEC-07	
Aqueous S SW6020-ARSENIC-DIS 09-DEC-07 250mL Plastic+HNO3	
Aqueous S SW6020-BERYLLIUM-DIS 09-DEC-07 250mL Plastic+HNO3	
Aqueous S SW6020-CADMIUM-DIS 09-DEC-07 250mL Plastic+HNO3	
Aqueous S SW6020-CALCIUM 09-DEC-07	
Aqueous S SW6020-CHROMIUM-DIS 09-DEC-07 250mL Plastic+HNO3	
Aqueous S SW6020-LEAD-DIS 09-DEC-07 250mL Plastic+HNO3	
Aqueous S SW6020-MAGNESIUM 09-DEC-07	
Aqueous S SW6020-NICKEL-DIS 09-DEC-07 250mL Plastic+HNO3	
Aqueous S SW7470-MERCURY-DIS 10-JUL-07 500mL Plastic+HNO3	
SA2939-7 EFSW02AA 12-JUN-07 11:30 13-JUN-07 02-JUL-07	
Matrix Product Hold Date (shortest) Bottle Type Bottle Count	-
Aqueous S SM2340B-HARDNESS 09-DEC-07 125mL Plastic+HNO3	
Aqueous S SW3010-PREP 09-DEC-07	
Aqueous S SW6020-ARSENIC 09-DEC-07 250mL Plastic+HNO3 1	
Aqueous S SW6020-BERYLLIUM 09-DEC-07 250mL Plastic+HNO3	ļ
Aqueous S SW6020-CADMIUM 09-DEC-07 250mL Plastic+HNO3	
Aqueous S SW6020-CALCIUM 09-DEC-07	
Aqueous S SW6020-CHROMIUM 09-DEC-07 250mL Plastic+HNO3	
Aqueous S SW6020-LEAD 09-DEC-07 250mL Plastic+HNO3	
Aqueous S SW6020-MAGNESIUM 09-DEC-07	
Aqueous S SW6020-NICKEL 09-DEC-07 250mL Plastic+HNO3	
Aqueous S SW7470-MERCURY 10-JUL-07 500mL Plastic+HNO3	



Page: 3 of 5

Jun. 14, 2007 08:28 AM

Login Number: SA2939

Account:ENSR002 ENSR NoWeb

Project:

Laboratory		Client	Collect		Receive		Verbal	Due	
Sample ID		Sample Number	Date/Time		Date	PR	Date	Date	Q
Sample is			Daterrine		Date	PK	Date	Date	Comments
SA2939-8	E	FSW02AA	12-JUN-07 1	1:30	13-JUN-07			02-JUL-07	
Matrix		Product	Hold Date (shortest)	Bottle	е Туре	Во	ttle Count		
Aqueous	s	FILTERING							
Aqueous	s	SM2340B-HARDNESS	09-DEC-07	125m	125mL Plastic+HNO3		1		
Aqueous	S	SW3010-PREP	09-DEC-07						
Aqueous	s	SW6020-ARSENIC-DIS	09-DEC-07	250m	L Plastic+HNO3				
Aqueous	s	SW6020-BERYLLIUM-DIS	09-DEC-07	250m	L Plastic+HNO3				
Aqueous	s	SW6020-CADMIUM-DIS	09-DEC-07	250m	L Plastic+HNO3				
Aqueous	s	SW6020-CALCIUM	09-DEC-07						İ
Aqueous	S	SW6020-CHROMIUM-DIS	09-DEC-07	250m	L Plastic+HNO3				
Aqueous	s	SW6020-LEAD-DIS	09-DEC-07	250m	L Plastic+HNO3				
Aqueous	s	SW6020-MAGNESIUM	09-DEC-07						
Aqueous	s	SW6020-NICKEL-DIS	09-DEC-07	250m	L Plastic+HNO3				
Aqueous	s	SW7470-MERCURY-DIS	10-JUL-07	500m	L Plastic+HNO3				
SA2939-9	E	FSW01AA	12-JUN-07 1	1:20	13-JUN-07			02-JUL-07	
Matrix		Product	Hold Date (shortest)	Bottle	э Туре	Во	ttle Count		
Aqueous	s	SM2340B-HARDNESS	09-DEC-07	125m	L Plastic+HNO3				
Aqueous	s	SW3010-PREP	09-DEC-07						
Aqueous	s	SW6020-ARSENIC	09-DEC-07	250m	L Plastic+HNO3		1		
Aqueous	s	SW6020-BERYLLIUM	09-DEC-07	250m	L Plastic+HNO3				
Aqueous	s	SW6020-CADMIUM	09-DEC-07	250m	L Plastic+HNO3				
Aqueous	S	SW6020-CALCIUM	09-DEC-07						
Aqueous	s	SW6020-CHROMIUM	09-DEC-07	250m	L Plastic+HNO3				
Aqueous	S	SW6020-LEAD	09-DEC-07	250m	L Plastic+HNO3				
Aqueous	s	SW6020-MAGNESIUM	09-DEC-07						
Aqueous	S	SW6020-NICKEL	09-DEC-07	250m	L Plastic+HNO3				
Aqueous	S	SW7470-MERCURY	10-JUL-07	500mi	L Plastic+HNO3				
SA2939-10	Ε	FSW01AA	12-JUN-07 1	1:20	13-JUN-07			02-JUL-07	
Matrix		Product	Hold Date (shortest)	Bottle	Туре	Bo	ttle Count		
Aqueous	s	FILTERING							
Aqueous	S	SM2340B-HARDNESS	09-DEC-07	125mi	L Plastic+HNO3		1		1
Aqueous	S	SW3010-PREP	09-DEC-07						
Aqueous	S	SW6020-ARSENIC-DIS	09-DEC-07	250ml	_ Plastic+HNO3				ļ
Aqueous	s	SW6020-BERYLLIUM-DIS	09-DEC-07		_ Plastic+HNO3				İ
	S	SW6020-CADMIUM-DIS	09-DEC-07	250ml	_ Plastic+HNO3				
	S	SW6020-CALCIUM	09-DEC-07						
	S	SW6020-CHROMIUM-DIS	09-DEC-07		_ Plastic+HNO3				ŀ
	S	SW6020-LEAD-DIS	09-DEC-07	250ml	_ Plastic+HNO3				į
•	S	SW6020-MAGNESIUM	09-DEC-07						
	S	SW6020-NICKEL-DIS	09-DEC-07		_ Plastic+HNO3				
Aqueous		SW7470-MERCURY-DIS	10-JUL-07	500ml	Plastic+HNO3				
SA2939-11	Li	FSD01AC	12-JUN-07 0	8:25	13-JUN-07			02-JUL-07	
Matrix		Product	Hold Date (shortest)	Bottle	Туре	Bot	tle Count		
		SW3010-PREP	09-DEC-07						i
· ·		SW6020-ARSENIC	09-DEC-07		Plastic+HNO3		1		j
		SW6020-BERYLLIUM	09-DEC-07		. Plastic+HNO3				1
		SW6020-CADMIUM	09-DEC-07		. Plastic+HNO3				1
		SW6020-CHROMIUM	09-DEC-07		Plastic+HNO3				
-		SW6020-LEAD	09-DEC-07		Plastic+HNO3				
		SW6020-NICKEL	09-DEC-07		. Plastic+HNO3				
Aqueous	S	SW7470-MERCURY	10-JUL-07	500mL	. Plastic+HNO3				



Page: 4 of 5

Jun. 14, 2007 08:28 AM

Login Number: SA2939

Account:ENSR002

NoWeb

ENSR

Project:

Laboratory Sample ID	/	Client Sample Number	Collect Date/Time		Receive Date	PR	Verbal Date	Due Date	Comments
SA2939-12	/	AJM01AA	11-JUN-07 (08:25	13-JUN-07			02-JUL-07	MS/MSD
Matrix		Product	Hold Date (shortest)	Bottle	Туре	Bo	ttle Count	 	
Aqueous	S	MS/MSD							
Aqueous	S		08-DEC-07						
Aqueous	S		08-DEC-07		_ Plastic+HNO3		3		
Aqueous	S		08-DEC-07		_ Plastic+HNO3				
Aqueous	S		08-DEC-07		_ Plastic+HNO3				
Aqueous	S		08-DEC-07		_ Plastic+HNO3				
Aqueous	S		08-DEC-07		Plastic+HNO3				
Aqueous	s		08-DEC-07		Plastic+HNO3				
Aqueous	S		09-JUL-07		. Plastic+HNO3				
SA2939-13	F	AJM02AA	11-JUN-07 (08:35	13-JUN-07			02-JUL-07	
Matrix		Product	Hold Date (shortest)	Bottle	Туре	Во	ttle Count		
Aqueous	S		08-DEC-07						
Aqueous	S		08-DEC-07		Plastic+HNO3		1		
Aqueous	S		08-DEC-07		Plastic+HNO3				
Aqueous	S		08-DEC-07		Plastic+HNO3				
Aqueous	S		08-DEC-07		Plastic+HNO3				
Aqueous	S		08-DEC-07		Plastic+HNO3				
Aqueous	S		08-DEC-07		. Plastic+HNO3				
queous	s		09-JUL-07		Plastic+HNO3				**************************************
A2939-14	F	AJM02AB	11-JUN-07 (08:35	13-JUN-07			02-JUL-07	
latrix		Product	Hold Date (shortest)	Bottle	Туре	Bo	ttle Count		
queous	S		08-DEC-07						
queous	S		08-DEC-07		. Plastic+HNO3		1		
queous	s		08-DEC-07		Plastic+HNO3				
queous	S	SW6020-CADMIUM	08-DEC-07	250mL	. Plastic+HNO3				
queous	S		08-DEC-07		. Plastic+HNO3				
queous	S		08-DEC-07		. Plastic+HNO3				
queous	S	SW6020-NICKEL	08-DEC-07		. Plastic+HNO3				
queous	S		09-JUL-07		. Plastic+HNO3		· · · · · · · · · · · · · · · · · · ·	00 1111 07	
A2939-15		EFSD02AA	12-JUN-07	12:00	13-JUN-07			02-JUL-07	
Matrix		Product	Hold Date (shortest)	Bottle	Туре	Во	ttle Count		
Solid	S		26-JUN-07				4		
Solid	S	SW3050-PREP	09-DEC-07	4000	I Disable		1		
Solid	S	SW6020-ARSENIC	09-DEC-07		L Plastic				
Solid	S	SW6020-BERYLLIUM	09-DEC-07		L Plastic				
Solid Solid	S S		09-DEC-07		L Plastic				
Solid Solid	S	SW6020-CHROMIUM SW6020-LEAD	09-DEC-07 09-DEC-07		L Plastic L Plastic				
Solid Solid	S	SW6020-LEAD SW6020-NICKEL	09-DEC-07		L Plastic				
Solid	S	SW7471-MERCURY	10-JUL-07	50g GI					
Solid		TS	12-JUL-07	30g GI					
A2939-16	Ē	FSD01AA	12-JUN-07 1	1:40	13-JUN-07			02-JUL-07	MS/MSD on metals.
latrix		Product	Hold Date (shortest)	Bottle	Туре	Во	ttle Count		
olid	s	LLOYDKAHN-TOCSOIL	26-JUN-07						
olid	s	MS/MSD-METALS							
olid	S	SW3050-PREP	09-DEC-07				3		
olid	S	SW6020-ARSENIC	09-DEC-07	1000m	L Plastic				
iolid	s	SW6020-BERYLLIUM	09-DEC-07		L Plastic				
olid	S	SW6020-CADMIUM	09-DEC-07		L Plastic				
iolid	S	SW6020-CHROMIUM	09-DEC-07		L Plastic				
Solid	S	SW6020-LEAD	09-DEC-07		L Plastic				
Solid	S	SW6020-NICKEL	09-DEC-07		L Plastic				
olid	S	SW7471-MERCURY	10-JUL-07	50g Gl					
olid	S	TS	12-JUL-07						page 0000054



Page: 5 of 5

Jun. 14, 2007 08:28 AM

Login Number: SA2939

Account: ENSR002

NoWeb

ENSR

Project:

Laboratory	,	Client	Collect		Receive		Verbal	Due		
Sample ID		Sample Number	Date/Time		Date	PR	Date	Date	Comments	
oumpie is			Date, Time			1 11			Comments	
SA2939-17	L	FSD02AA	12-JUN-07 0	9:10	13-JUN-07		<u> </u>	02-JUL-07		
Matrix		Product	Hold Date (shortest)	Bottle 7	Гуре	Во	ttle Count			
Solid	S	LLOYDKAHN-TOCSOIL	26-JUN-07							
Solid	S	SW3050-PREP	09-DEC-07				1			
Solid	s	SW6020-ARSENIC	09-DEC-07	1000mL	. Plastic					
Solid	s	SW6020-BERYLLIUM	09-DEC-07	1000mL	. Plastic					
Solid	s	SW6020-CADMIUM	09-DEC-07	1000mL	. Plastic					
Solid	S	SW6020-CHROMIUM	09-DEC-07	1000mL	. Plastic					
Solid	s	SW6020-LEAD	09-DEC-07	1000mL	. Plastic					
Solid	S	SW6020-NICKEL	09-DEC-07	1000mL	. Plastic					
Solid	s	SW7471-MERCURY	10-JUL-07	50g Gla	SS					
Solid	S	TS	12-JUL-07	•						
SA2939-18	$\overline{}$	FSD02AB	12-JUN-07 09	9:10	13-JUN-07			02-JUL-07		
Matrix		Product	Hold Date (shortest)	Bottle 1	Гуре	Во	ttle Count			
Solid	s	SW3050-PREP	09-DEC-07				1			
Solid	S	SW6020-ARSENIC	09-DEC-07	1000mL	. Plastic					
Solid	S	SW6020-BERYLLIUM	09-DEC-07	1000mL	. Plastic					
Solid	s	SW6020-CADMIUM	09-DEC-07	1000mL	. Plastic					
Solid	S	SW6020-CHROMIUM	09-DEC-07	1000mL	Plastic					
Solid	S	SW6020-LEAD	09-DEC-07	1000mL	Plastic					
Solid	S	SW6020-NICKEL	09-DEC-07	1000mL	Plastic					
Solid	S	SW7471-MERCURY	10-JUL-07	50g Gla	ss					
Solid	S	TS	12-JUL-07							
SA2939-19	L	FSD01AA	12-JUN-07 09	9:00	13-JUN-07			02-JUL-07		
Matrix		Product	Hold Date (shortest)	Bottle 7	уре	Во	ttle Count			
Solid	s	LLOYDKAHN-TOCSOIL	26-JUN-07							
Solid	s	SW3050-PREP	09-DEC-07				1			
Solid	s	SW6020-ARSENIC	09-DEC-07	1000mL	Plastic					
Solid	s	SW6020-BERYLLIUM	09-DEC-07	1000mL	Plastic					
Solid	s	SW6020-CADMIUM	09-DEC-07	1000mL	Plastic					
Solid	s	SW6020-CHROMIUM	09-DEC-07	1000mL						1
Solid	s	SW6020-LEAD	09-DEC-07	1000mL						
Solid	s	SW6020-NICKEL	09-DEC-07	1000mL						
Solid	s	SW7471-MERCURY	10-JUL-07	50g Gla						1
Solid		TS	12-JUL-07	_55 514	==					Ì
Goild	9		12 30E-01							- 1

Total Samples:

Total Analyses:

192





July 5, 2007

Ms. Kristen Durocher ENSR 7041 Old Wake Forest Rd. Suite 103 Raleigh,NC 27616

RE: Katahdin Lab Number:

SA2976

Project ID:

04739-003 MCRRF

Project Manager:

Mrs. Andrea Colby

Sample Receipt Date(s):

June 14, 2007

Dear Ms. Durocher:

Please find enclosed the following information:

- * Report of Analysis (Analytical and/or Field)
- * Quality Control Data Summary
- * Chain of Custody (COC)
- * Login Report

A copy of the Chain of Custody is included in the paginated report. The original COC is attached as an addendum to this report.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact the project manager listed above. This cover letter is an integral part of the ROA.

We certify that the test results provided in this report meet all the requirements of the NELAC standards unless otherwise noted in an attached technical narrative or in the Report of Analysis.

We appreciate your continued use of our laboratory and look forward to working with you in the future. The following signature indicates technical review and acceptance of the data.

Sincerely,

KATAHDIN ANALYTICAL SERVICES

Authorized Signature 07/05/2007

Date

DATA QUALIFIERS

- U Indicates the compound was analyzed for but not detected above the laboratory Practical Quantitation Limit.
- Compound recovery outside of quality control limits.
- D Indicates the result was obtained from analysis of a diluted sample. Surrogate recoveries may not be calculable.
- E Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.
- J Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Practical Quantitation Limit (PQL), but above the Method Detection Limit (MDL).
- B Organics- Indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample.
 Metals- Indicates the analyte was detected in the sample at a concentration greater than the instrument detection limit, but less than the laboratory's Practical Quantitation Level.
- N Presumptive evidence of a compound based on a mass spectral library search.
- A Indicates that a tentatively identified compound is a suspected aldol-condensation product.
- P Used for Pesticide/Aroclor analyte when there is a greater than 25% difference for detected concentrations between the two GC columns.
- MCL Maximum Contaminant Level
- NL No limit
- NFL No Free Liquid Present
- FLP Free Liquid Present
- NOD No Odor Detected

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services

Client Field ID: SLSW01AA

Matrix: WATER

SDG Name: SA2976

Percent Solids: 0.00

Lab Sample ID: SA2976-001

 $\textbf{Concentration Units:} \ ug/L$

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQLAd	justed MDL
7440-38-2	ARSENIC, TOTAL	3.45	U		MS	5	5.0	3.45
7440-41-7	BERYLLIUM, TOTAL	0.05	U		MS	5	1.0	0.05
7440-43-9	CADMIUM, TOTAL	0.12	В		MS	5	1.0	0.05
7440-47-3	CHROMIUM, TOTAL	1.0	В		MS	5	3.0	0.95
000-03-5	HARDNESS, TOTAL	36800			MS	5	660	50.30
7439-92-1	LEAD, TOTAL	0.30	В		MS	5	1.0	0.15
7439-97-6	MERCURY, TOTAL	0.01	U		CV	1	0.20	0.01
7440-02-0	NICKEL, TOTAL	0.50	В		MS	5	1.0	0.35

Bottle ID: C

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services

Client Field ID: SLSW01AA

Matrix: WATER

SDG Name:

SA2976

Percent Solids: 0.00

Lab Sample ID: SA2976-002

Concentration Units: ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQLAdju	usted MDL
7440-38-2	ARSENIC, DISSOLVED	3.45	U		MS	5	5.0	3.45
7440-41-7	BERYLLIUM, DISSOLVED	0.05	U		MS	5	1.0	0.05
7440-43-9	CADMIUM, DISSOLVED	0.05	U		MS	5	1.0	0.05
7440-47-3	CHROMIUM, DISSOLVED	0.95	U		MS	5	3.0	0.95
000-03-5	HARDNESS, DISSOLVED	31900			MS	5	660	50.30
7439-92-1	LEAD, DISSOLVED	0.15	U		MS	5	1.0	0.15
7439-97-6	MERCURY, DISSOLVED	0.01	U		CV	1	0.20	0.01
7440-02-0	NICKEL, DISSOLVED	0.38	В		MS	5	1.0	0.35

Bottle ID: A

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services

Client Field ID: SLSW02AA

Matrix: WATER

SDG Name:

SA2976

Percent Solids: 0.00

Lab Sample ID: SA2976-003

Concentration Units: ug/L

CAS No.	Analyte	Concentration		Q	M	DF	Adjusted PQLAdjusted MDL	
7440-38-2	ARSENIC, TOTAL	3.45	U		MS	5	5.0	3.45
7440-41-7	BERYLLIUM, TOTAL	0.05	U		MS	5	1.0	0.05
7440-43-9	CADMIUM, TOTAL	0.05	U		MS	5	1.0	0.05
7440-47-3	CHROMIUM, TOTAL	0.95	U		MS	5	3.0	0.95
000-03-5	HARDNESS, TOTAL	33800			MS	5	660	50.30
7439-92-1	LEAD, TOTAL	0.15	U		MS	5	1.0	0.15
7439-97-6	MERCURY, TOTAL	0.01	U		CV	1	0.20	0.01
7440-02-0	NICKEL, TOTAL	0.45	В		MS	5	1.0	0.35

Bottle ID: A

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services

Client Field ID: SLSW02AA

Matrix: WATER

SDG Name:

SA2976

Percent Solids: 0.00

Lab Sample ID: SA2976-004

Concentration Units: ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQLA	Adjusted MDL
7440-38-2	ARSENIC, DISSOLVED	3.45	U		MS	5	5.0	3.45
7440-41-7	BERYLLIUM, DISSOLVED	0.05	U		MS	5	1.0	0.05
7440-43-9	CADMIUM, DISSOLVED	0.05	U		MS	5	1.0	0.05
7440-47-3	CHROMIUM, DISSOLVED	0.95	U		MS	5	3.0	0.95
000-03-5	HARDNESS, DISSOLVED	33500			MS	5	660	50.30
7439-92-1	LEAD, DISSOLVED	0.15	U		MS	5	1.0	0.15
7439-97-6	MERCURY, DISSOLVED	0.01	U		CV	1	0.20	0.01
7440-02-0	NICKEL, DISSOLVED	0.42	В		MS	5	1.0	0.35

Bottle ID: A

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services

Client Field ID: SLSD01AA

Matrix: SOIL

SDG Name:

Percent Solids: 39.5

Lab Sample ID: SA2976-005

SA2976

Concentration Units: mg/Kgdrywt

CAS No.	Analyte	Concentration	C Q	M	DF	Adjusted PQLAdj	usted MDL
7440-38-2	ARSENIC, TOTAL	1.5		MS	5	0.76	0.26
7440-41-7	BERYLLIUM, TOTAL	0.62		MS	5	0.15	0.02
7440-43-9	CADMIUM, TOTAL	0.08	В	MS	5	0.15	0.02
7440-47-3	CHROMIUM, TOTAL	19.4		MS	5	0.45	0.27
7439-92-1	LEAD, TOTAL	18.0		MS	5	0.15	0.05
7439-97-6	MERCURY, TOTAL	0.03	В	CV	1	0.082	0.02
7440-02-0	NICKEL, TOTAL	12.1		MS	5	0.15	0.05

Bottle ID: A





Report of Analytical Results

Client: Kristen Durocher

ENSR

7041 Old Wake Forest Rd.

Raleigh, NC 27616

Lab Sample ID: SA2976-5

Report Date: 02-JUL-07 Client PO:

Project: 04739-003 MCRRF

SDG: SA2976

Sample Description

SLSD01AA

Matrix

Date Sampled

Date Received

SL

13-JUN-07

14-JUN-07

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
TOC In Soil	70000 ug/gdrywt	1000	LLOYDKAHN	WG40328	21-JUN-07 11:31:12	N/A	N/A	СР	
Total Solids	40. %	1	CLP SOW 788	WG40252	20-JUN-07 09:15:00	CLP SOW 788	19-JUN-07	CP	

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services

Client Field ID: SLSD02AA

Matrix: SOIL

SDG Name:

SA2976

Percent Solids: 49.7

Lab Sample ID: SA2976-006

Concentration Units: mg/Kgdrywt

CAS No.	Analyte	Concentration	C Q	M	DF	Adjusted PQLAdj	usted MDL
7440-38-2	ARSENIC, TOTAL	2.6		MS	5	0.59	0.20
7440-41-7	BERYLLIUM, TOTAL	0.49		MS	5	0.12	0.01
7440-43-9	CADMIUM, TOTAL	0.08	В	MS	5	0.12	0.02
7440-47-3	CHROMIUM, TOTAL	18.6		MS	5	0.35	0.21
7439-92-1	LEAD, TOTAL	18.9		MS	5	0.12	0.04
7439-97-6	MERCURY, TOTAL	0.05	В	CV	1	0.064	0.01
7440-02-0	NICKEL, TOTAL	8.6		MS	5	0.12	0.04

Bottle ID: A





Report of Analytical Results

Client: Kristen Durocher

ENSR

7041 Old Wake Forest Rd.

Raleigh, NC 27616

Lab Sample ID: SA2976-6

Report Date: 02-JUL-07 Client PO:

Project: 04739-003 MCRRF

SDG: SA2976

Sample Description

SLSD02AA

Matrix

Date Sampled

Date Received

SL

13-JUN-07

14-JUN-07

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
TOC In Soil	67000 ug/gdrywt	800	LLOYDKAHN	WG40328	21-JUN-07 11:52:24	N/A	N/A	СР	
Total Solids	50. %	1	CLP SOW 788	WG40252	20-JUN-07 09:14:00	CLP SOW 788	19-JUN-07	CP	

3P PREPARATION BLANKS

Lab Name: Katahdin Analytical Services

Sample ID: PBSXF22ICS0

Matrix: SOIL

SDG Name: SA2976

QC Batch ID: XF22ICS0

Concentration Units: mg/Kgdrywt

Analyte	RESULT	C	
ARSENIC	0.170	U	
BERYLLIUM	0.010	U	
CADMIUM	0.010	U	
CHROMIUM	0.180	U	
LEAD	0.083	В	
NICKEL	0.030	В	

7 LABORATORY CONTROL SAMPLES

Lab Name: Katahdin Analytical Services Sample

Sample ID: LCSSXF22ICS0

Matrix: SOIL

SDG Name: SA2976

QC Batch ID: XF22ICS0

Concentration Units: mg/Kgdrywt

Analyte	TRUE	FOUND	% R	LIMIT	S (%)
ARSENIC	289.0	273.57	94.7	81	119
BERYLLIUM	54.4	48.34	88.9	83	117
CADMIUM	101.0	95.82	94.9	82	118
CHROMIUM	224.0	233.36	104.2	80	120
LEAD	158.0	148.93	94.3	82	118
NICKEL	120.0	115.13	95.9	83	118

3P PREPARATION BLANKS

Lab Name: Katahdin Analytical Services

Sample ID: PBSXG02HGS0

Matrix: SOIL

SDG Name: SA2976

QC Batch ID: XG02HGS0

 $\textbf{Concentration Units:} \ mg/Kgdrywt$

Analyte	RESULT	С	
MERCURY	0.010	U	

7 LABORATORY CONTROL SAMPLES

Lab Name: Katahdin Analytical Services

Sample ID: LCSSXG02HGS0

Matrix: SOIL

SDG Name: SA2976

QC Batch ID: XG02HGS0

Concentration Units: mg/Kgdrywt

Analyte	TRUE	FOUND	% R	LIMITS (%)
MERCURY	5.2	5.18	99.6	66 133

3P PREPARATION BLANKS

Lab Name: Katahdin Analytical Services

Sample ID: PBWXF15ICW4

Matrix: WATER

SDG Name: SA2976

QC Batch ID: XF15ICW4

Analyte	RESULT	С	
ARSENIC	3.470	U	
BERYLLIUM	-0.076	В	
CADMIUM	0.030	U	
CALCIUM	170.000		
CHROMIUM	0.960	U	
LEAD	0.140	U	
MAGNESIUM	10.105	В	
NICKEL	0.330	U	

7 LABORATORY CONTROL SAMPLES

Lab Name: Katahdin Analytical Services

Sample ID: LCSWXF15ICW4

Matrix: WATER

SDG Name: SA2976

QC Batch ID: XF15ICW4

Analyte	TRUE	FOUND	% R	LIMITS (%)	
ARSENIC	500.0	477.50	95.5	80	120
BERYLLIUM	50.0	42.15	84.3	80	120
CADMIUM	250.0	233.40	93.4	80	120
CALCIUM	2500.0	2354.00	94.2	80	120
CHROMIUM	200.0	189.70	94.8	80	120
LEAD	500.0	467.10	93.4	80	120
MAGNESIUM	5000.0	4699.00	94.0	80	120
NICKEL	500.0	471.00	94.2	80	120

3P PREPARATION BLANKS

Lab Name: Katahdin Analytical Services Sample ID: PBWXF15ICW5

Matrix: WATER SDG Name: SA2976

QC Batch ID: XF15ICW5

Analyte	RESULT	С	
ARSENIC	3.470	U	
BERYLLIUM	-0.079	В	
CADMIUM	0.030	U	
CALCIUM	60.000	В	
CHROMIUM	0.960	U	
LEAD	0.140	U	
MAGNESIUM	6.600	U	
NICKEL	0.330	U	

7 LABORATORY CONTROL SAMPLES

Lab Name: Katahdin Analytical Services Sample ID: LCSWXF15ICW5

Matrix: WATER SDG Name: SA2976

QC Batch ID: XF15ICW5

Analyte	TRUE	FOUND	% R	LIMIT	S (%)
ARSENIC	500.0	475.00	95.0	80	120
BERYLLIUM	50.0	42.25	84.5	80	120
CADMIUM	250.0	238.80	95.5	80	120
CALCIUM	2500.0	2090.00	83.6	80	120
CHROMIUM	200.0	202.90	101.4	80	120
LEAD	500.0	465.00	93.0	80	120
MAGNESIUM	5000.0	4443.00	88.9	80	120
NICKEL	500.0	482.10	96.4	80	120

3P PREPARATION BLANKS

Lab Name: Katahdin Analytical Services

 $\textbf{Sample ID:} \quad PBWXF19HGW2$

Matrix: WATER

SDG Name: SA2976

QC Batch ID: XF19HGW2

Analyte	RESULT	\mathbf{C}	
MERCURY	-0.080	В	

7 LABORATORY CONTROL SAMPLES

Lab Name: Katahdin Analytical Services Sample ID: LCSWXF19HGW2

Matrix: WATER SDG Name: SA2976

QC Batch ID: XF19HGW2

Analyte	TRUE	FOUND	% R	LIMITS (%)
MERCURY	5.0	5.40	108.0	80 120

5A SPIKE SAMPLE RECOVERY

Lab Name: Katahdin Analytical Services

Client Field ID: SLSW01AAS

Matrix: WATER

SDG Name:

SA2976

Percent Solids: 0.00

Lab Sample ID: SA2976-001S

Concentration Units: ug/L

	Spiked	Sample	Spike		Control Li	mits (%R)	
Analyte	Sample Result C	Result C	Added	%R (Q Low	High	M
ARSENIC, TOTAL	500.7000	1.7410 U	500	100.1	75	125	MS
BERYLLIUM, TOTAL	41.6400	-0.0797 U	50	83.3	75	125	MS
CADMIUM, TOTAL	234.8000	0.1175 B	250	93.9	75	125	MS
CHROMIUM, TOTAL	197.2000	1.0305 B	200	98.1	75	125	MS
LEAD, TOTAL	491.2000	0.2992 B	500	98.2	75	125	MS
MERCURY, TOTAL	1.0290	-0.0690 U	1	102.9	75	125	CV
NICKEL, TOTAL	484.3000	0.5020 B	500	96.8	75	125	MS

5A SPIKE SAMPLE RECOVERY

Lab Name: Katahdin Analytical Services

Client Field ID: SLSW01AAS

Matrix: WATER

SDG Name:

SA2976

Percent Solids: 0.00

Lab Sample ID: SA2976-001P

Concentration Units: ug/L

	Spiked	Sample	Spike		Control Lir	nits (%R)	
Analyte	Sample Result C	Result C	Added	%R Q	Low	High	M
ARSENIC, TOTAL	505.9000	1.7410 U	500	101.2	75	125	MS
BERYLLIUM, TOTAL	42.8200	-0.0797 U	50	85.6	75	125	MS
CADMIUM, TOTAL	242.6000	0.1175 B	250	97.0	75	125	MS
CHROMIUM, TOTAL	205.4000	1.0305 B	200	102.2	75	125	MS
LEAD, TOTAL	493.3000	0.2992 B	500	98.6	75	125	MS
MERCURY, TOTAL	1.0360	-0.0690 U	1	103.6	75	125	CV
NICKEL, TOTAL	502.7000	0.5020 B	500	100.4	75	125	MS

5D SPIKE DUPLICATES

Lab Name: Katahdin Analytical Services

Client Field ID: SLSW01AA

Matrix: WATER

SDG Name:

SA2976

Percent Solids: 0.00

Lab Sample ID: SA2976-001

Concentration Units: ug/L

Analyte	Control Limits	Spike Result	C Spike Dup. Result C	RPD	Q M
ARSENIC, TOTAL		500.7000	505.9000	1.0	MS
BERYLLIUM, TOTAL	10	41.6400	42.8200	2.8	MS
CADMIUM, TOTAL		234.8000	242.6000	3.3	MS
CHROMIUM, TOTAL		197.2000	205.4000	4.1	MS
LEAD, TOTAL		491.2000	493.3000	0.4	MS
MERCURY, TOTAL		1.0290	1.0360	0.7	CV
NICKEL, TOTAL		484.3000	502.7000	3.7	MS

9 ICP SERIAL DILUTION

Lab Name: Katahdin Analytical Services

Client Field ID: SLSW01AAL

Matrix: WATER

SDG Name:

SA2976

Lab Sample ID: SA2976-001L

Analyte	Sample Result	C	Dilution Result	C	% Difference	Q	M
ARSENIC, TOTAL	0.35	U	0.00	U			MS
BERYLLIUM, TOTAL	-0.02	U	-0.08	U			MS
CADMIUM, TOTAL	0.02	В	0.06	В	200.0		MS
CHROMIUM, TOTAL	0.21	В	0.23	U	100.0		MS
LEAD, TOTAL	0.06	В	0.12	U	100.0		MS
NICKEL, TOTAL	0.10	В	0.14	U	100.0		MS

5A SPIKE SAMPLE RECOVERY

Lab Name: Katahdin Analytical Services

Client Field ID: SLSW01AAS

Matrix: WATER

SDG Name:

SA2976

Percent Solids: 0.00

Lab Sample ID: SA2976-002S

Concentration Units: ug/L

	Spiked	Sample	Spike		Control Li	mits (%R)	
Analyte	Sample Result C	Result C	Added	%R Q	Low	High	M
ARSENIC, DISSOLVED	483.6000	0.9190 U	500	96.7	75	125	MS
BERYLLIUM, DISSOLVED	42.3300	-0.1288 U	50	84.7	75	125	MS
CADMIUM, DISSOLVED	240.5000	-0.0104 U	250	96.2	75	125	MS
CHROMIUM, DISSOLVED	197.3000	0.4462 U	200	98.7	75	125	MS
LEAD, DISSOLVED	472.3000	-0.0121 U	500	94.5	75	125	MS
MERCURY, DISSOLVED	1.0400	-0.0720 U	1	104.0	75	125	CV
NICKEL, DISSOLVED	482.3000	0.3797 B	500	96.4	75	125	MS

5A SPIKE SAMPLE RECOVERY

Lab Name: Katahdin Analytical Services

Client Field ID: SLSW01AAS

SA2976

Matrix: WATER

SDG Name:

Percent Solids: 0.00

Lab Sample ID: SA2976-002P

Concentration Units: ug/L

	Spiked	Sample	Spike		Control Lin	nits (%R)	
Analyte	Sample Result C	Result C	Added	%R Q	Low	High	\mathbf{M}
ARSENIC, DISSOLVED	507.5000	0.9190 U	500	101.5	75	125	MS
BERYLLIUM, DISSOLVED	42.5400	-0.1288 U	50	85.1	75	125	MS
CADMIUM, DISSOLVED	252.9000	-0.0104 U	250	101.2	75	125	MS
CHROMIUM, DISSOLVED	206.7000	0.4462 U	200	103.3	75	125	MS
LEAD, DISSOLVED	499.5000	-0.0121 U	500	99.9	75	125	MS
MERCURY, DISSOLVED	1.0120	-0.0720 U	1	101.2	75	125	CV
NICKEL, DISSOLVED	506.6000	0.3797 B	500	101.2	75	125	MS

5D SPIKE DUPLICATES

Lab Name: Katahdin Analytical Services

Client Field ID: SLSW01AA

Matrix: WATER

SDG Name:

SA2976

Percent Solids: 0.00

Lab Sample ID: SA2976-002

 $\textbf{Concentration Units:} \ ug/L$

Analyte	Control Limits	Spike Result	C Spike Dup. Result	C RPD	Q	M
ARSENIC, DISSOLVED		483.6000	507.5000	4.8		MS
BERYLLIUM, DISSOLVED	10	42.3300	42.5400	0.5		MS
CADMIUM, DISSOLVED		240.5000	252.9000	5.0		MS
CHROMIUM, DISSOLVED		197.3000	206.7000	4.7		MS
LEAD, DISSOLVED		472.3000	499.5000	5.6		MS
MERCURY, DISSOLVED		1.0400	1.0120	2.7		CV
NICKEL, DISSOLVED		482.3000	506.6000	4.9		MS

9 ICP SERIAL DILUTION

Lab Name: Katahdin Analytical Services

Client Field ID: SLSW01AAL

Matrix: WATER

SDG Name: SA2976

Lab Sample ID: SA2976-002L

Analyte	Sample Result	C	Dilution Result	C	% Difference	Q	M
ARSENIC, DISSOLVED	0.18	U	0.54	U			MS
BERYLLIUM, DISSOLVED	-0.03	U	-0.10	U			MS
CADMIUM, DISSOLVED	0.00	U	0.01	U			MS
CHROMIUM, DISSOLVED	0.09	U	-0.28	U			MS
LEAD, DISSOLVED	0.00	U	-0.02	U			MS
MERCURY, DISSOLVED	-0.07	U	-0.39	U			CV
NICKEL, DISSOLVED	0.08	В	0.09	U	100.0		MS



ANALYTICAL SERVICES Quality Control Report



Blank Sample Summary Report

TOC in Soil

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	<u>PQL</u>
MBLANK	WG40328	Lloyd Kahn	21-JUN-07	N/A	U 400 ug/gdrywt	00 ug/gdryw
Total Solids						
Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL
MBLANK	WG40252	CLP SOW 788	20-JUN-07	19-JUN-07	U 1 %	1 %





Quality Control Report

Laboratory Control Sample Summary Report

TOC In Soil

Lab Sample Id	Samp Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amt.	Result	Recovery	Acceptance Range	RPD
WG40328-2 Total Solids	LCS	WG40328	21-JUN-07	N/A	ug/gdrywt	400000.000	420000	105	80-120	
Lab Sample Id	Samp Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amt.	Result	Recovery	Acceptance Range	RPD
WG40252-2	LCS	WG40252	20-JUN-07	19-JUN-07	%	90	89.	98	80-120	





Quality Control Report

Duplicate Sample Summary Report

Total Solids

Duplicate Sample ID	Original Sample ID	QC Batch	Analysis Date	Result Units	Sample Result	Duplicate Result	RPD(%)	RPD Limit	
WG40252-3	SA2976-5	WG40252	20-JUN-07	0/0	40.	38.	4	20	

Client: ENSR		KAS	S PM:	Aic	Sampled By: Clicnh				
Project:		KIM	S Entry	BA: D	Delivered By: FEOEX				
KAS Work Order#: SA2976		1	S Revie		№ Received By: DD				
SDG #: Cooler:	1	_ of	3_(Bluc)	Date/Time Rec.: 001407 1005				
			1	7					
Receipt Criteria	Υ	N	EX*	NA	Comments and/or Resolution				
1. Custody seals present / intact?	X								
2. Chain of Custody present in cooler?	X								
3. Chain of Custody signed by client?	X								
4. Chain of Custody matches samples?	X				4				
5. Temperature Blanks present?		X			Temp (°C):				
6. Samples received at < 6 °C w/o freezing? © or ice packs present?	X				Cooler temp. (°C):3,7				
7. Volatiles free of headspace?						-			
Aqueous: No bubble larger than a pea	-			X					
Soil/Sediment: Received in airtight container?				X					
Received in methanol?				X					
Methanol covering soil?				X					
8. Trip Blank present in cooler?				X					
9. Proper sample containers and volume?	X				·				
10. Samples within hold time upon receipt?	X	-		,					
 Aqueous samples properly preserved? Metals, COD, NH3, TKN, O/G, phenol, 		X			metab samples preserved with	و١٢٥			
TPO4, N+N, TOC, DRO, TPH – pH <2 Sulfide - >9				χ	by lab (unfiltered)				
Cyanide – pH >12				X	,				
12. Corrective Action Report Filed?				V					
* Log-In Notes to Exceptions: document any	/ proble	ms wit	th sam	ples o	or discrepancies or pH adjustments				

Matanum Analytical Selvices, Inc.

sample neceibt condition uebout



Katahdin Analytical Services

Login Chain of Custody Report (Ino1)

Jun. 14, 2007 05:27 PM

Login Number: SA2976

Account: ENSR002

ENSR

Project:

Primary Report Address:

Kristen Durocher

ENSR

7041 Old Wake Forest Rd.

Suite 103

Raleigh, NC 27616

Primary Invoice Address:

Kristen Durocher

ENSR

7041 Old Wake Forest Rd.

Suite 103

Raleigh,NC 27616

Login Information

NoWeb ANALYSIS INSTRUCTIONS :

EDD FORMAT

ANALYSIS INSTRUCTIONS

CHECK NO.

CLIENT PO# : COOLER TEMPERATURE : 3.7

DELIVERY SERVICES : FEDEX

MAIL DATE :

PM : AJC

PROJECT NAME : 04739-003 MCRRF

QC LEVEL : II+

REGULATORY LIST

: WEST-XLS

Suppress Ca & Mg.

Page: 1 of 2

SDG ID

SDG STATUS

Report CC Addresses:

Invoice CC Addresses:

Laboratory Sample ID		lient ample Number	Collect Date/Time		Receive Date	PR	Verbal Date	Due Date	Comments
SA2976-1	SLS	W01AA	13-JUN-07 (08:00	14-JUN-07			03-JUL-07	MS/MSD
Matrix	Pr	oduct	Hold Date (shortest)	Bottle	Туре	Во	ottle Count		
Aqueous	S MS	S/MSD							
Aqueous	S SM	12340B-HARDNESS	10-DEC-07	125mL	Plastic+HNO3				
Aqueous	s sv	V3010-PREP	10-DEC-07						
Aqueous	s sv	V6020-ARSENIC	10-DEC-07	250mL	Plastic+HNO3		3		
Aqueous	s sv	V6020-BERYLLIUM	10-DEC-07	250mL	Plastic+HNO3				
Aqueous		V6020-CADMIUM	10-DEC-07	250mL	Plastic+HNO3				
Aqueous		V6020-CALCIUM	10-DEC-07						
Aqueous		V6020-CHROMIUM	10-DEC-07		Plastic+HNO3				
Aqueous		/6020-LEAD	10-DEC-07	250mL	Plastic+HNO3				
Aqueous	s sv	6020-MAGNESIUM	10-DEC-07						
Aqueous	s sw	6020-NICKEL	10-DEC-07		Plastic+HNO3				
Aqueous	S SW	/7470-MERCURY	11-JUL-07	500mL	Plastic+HNO3				
SA2976-2	SLS	W01AA	13-JUN-07 (00:80	14-JUN-07			03-JUL-07	MS/MSD
Matrix	Pr	oduct	Hold Date (shortest)	Bottle	Туре	Во	ttle Count		
Aqueous	S FIL	TERING							
Aqueous	S MS	/MSD							
Aqueous	S SM	12340B-HARDNESS	10-DEC-07	125mL	Plastic+HNO3		3		
Aqueous		/3010-PREP	10-DEC-07						
Aqueous		/6020-ARSENIC-DIS	10-DEC-07		Plastic+HNO3				
Aqueous		6020-BERYLLIUM-DIS	10-DEC-07		Plastic+HNO3				
Aqueous		/6020-CADMIUM-DIS	10-DEC-07	250mL	Plastic+HNO3				
Aqueous		/6020-CALCIUM	10-DEC-07						
Aqueous		/6020-CHROMIUM-DIS	10-DEC-07		Plastic+HNO3				
Aqueous		/6020-LEAD-DIS	10-DEC-07	250mL	Plastic+HNO3				
Aqueous		6020-MAGNESIUM	10-DEC-07						
Aqueous		/6020-NICKEL-DIS	10-DEC-07		Plastic+HNO3				
Aqueous	S SW	7470-MERCURY-DIS	11-JUL-07	500mL	Plastic+HNO3				



Katahdin Analytical Services

Login Chain of Custody Report (Ino1)

Page: 2 of 2

Jun. 14, 2007 05:27 PM

Login Number: SA2976

Account: ENSR002

NoWeb

ENSR

Project:

Laboratory Sample ID	<i>'</i>	Client Sample Number	Collect Date/Time		Receive Date	PR	Verbal Date	Due Date	Comments
SA2976-3	S	SLSW02AA	13-JUN-07 0	8:30	14-JUN-07			03-JUL-07	
Matrix		Product	Hold Date (shortest)	Bottle	е <i>Тур</i> е	Во	ttle Count		
Aqueous	S	SM2340B-HARDNESS	10-DEC-07	125m	L Plastic+HNO3				
Aqueous	S	SW3010-PREP	10-DEC-07						
Aqueous	S	SW6020-ARSENIC	10-DEC-07	250ml	L Plastic+HNO3		1		
Aqueous	S	SW6020-BERYLLIUM	10-DEC-07		L Plastic+HNO3				
Aqueous	S	SW6020-CADMIUM	10-DEC-07	250ml	L Plastic+HNO3				
Aqueous	S	SW6020-CALCIUM	10-DEC-07						
Aqueous	S	SW6020-CHROMIUM	10-DEC-07		L Plastic+HNO3				
Aqueous	S	SW6020-LEAD	10-DEC-07	250ml	L Plastic+HNO3				
Aqueous	S	SW6020-MAGNESIUM	10-DEC-07						
Aqueous	S	SW6020-NICKEL	10-DEC-07		L Plastic+HNO3				
Aqueous	S	SW7470-MERCURY	11-JUL-07		L Plastic+HNO3				
SA2976-4	5	SLSW02AA	13-JUN-07 0	8:30	14-JUN-07			03-JUL-07	
Matrix	-	Product	Hold Date (shortest)	Bottle	Туре	Во	ttle Count		
Aqueous	S	FILTERING							
Aqueous	S	SM2340B-HARDNESS	10-DEC-07	125ml	L Plastic+HNO3		1		
Aqueous	S	SW3010-PREP	10-DEC-07	ore i					
Aqueous	S	SW6020-ARSENIC-DIS	10-DEC-07		L Plastic+HNO3				
Aqueous	S	SW6020-BERYLLIUM-DIS SW6020-CADMIUM-DIS	10-DEC-07		L Plastic+HNO3				
Aqueous	S	SW6020-CALCIUM	10-DEC-07 10-DEC-07	250MI	L Plastic+HNO3				
Aqueous Aqueous	S S	SW6020-CALCIONI SW6020-CHROMIUM-DIS	10-DEC-07	250ml	L Plastic+HNO3				
Aqueous	S	SW6020-CHROMIOW-DIS	10-DEC-07		_ Plastic+HNO3				
Aqueous	S	SW6020-LEAD-DIS SW6020-MAGNESIUM	10-DEC-07	230111	_ Flastic+INOS				
Aqueous	S	SW6020-NICKEL-DIS	10-DEC-07	250ml	_ Plastic+HNO3				
Aqueous	S	SW7470-MERCURY-DIS	11-JUL-07		_ Plastic+HNO3				
SA2976-5		SLSD01AA	13-JUN-07 0		14-JUN-07			03-JUL-07	
Matrix		Product	Hold Date (shortest)	Bottle	туре	Bo	ttle Count		
Solid	s	LLOYDKAHN-TOCSOIL	27-JUN-07		.,,,				
Solid	S	SW3050-PREP	10-DEC-07				1		
Solid	s	SW6020-ARSENIC	10-DEC-07	1000n	nL Plastic				
Solid	s	SW6020-BERYLLIUM	10-DEC-07	1000n	nL Plastic				
Solid	s	SW6020-CADMIUM	10-DEC-07	1000m	nL Plastic				
Solid	s	SW6020-CHROMIUM	10-DEC-07	1000m	nL Plastic				
Solid	s	SW6020-LEAD	10-DEC-07		nL Plastic				
Solid	S	SW6020-NICKEL	10-DEC-07	1000m	nL Plastic				
Solid	S	SW7471-MERCURY	11-JUL-07	50g G	lass				
Solid	S	TS	13-JUL-07						
SA2976-6	S	LSD02AA	13-JUN-07 0	8:40	14-JUN-07			03-JUL-07	
Matrix		Product	Hold Date (shortest)	Bottle	Туре	Во	ttle Count		
Solid		LLOYDKAHN-TOCSOIL	27-JUN-07						
Solid	S	SW3050-PREP	10-DEC-07				1		
Solid	S	SW6020-ARSENIC	10-DEC-07		L Plastic				
Solid	S	SW6020-BERYLLIUM	10-DEC-07		nL Plastic				
Solid	S	SW6020-CADMIUM	10-DEC-07		nL Plastic				
Solid	S	SW6020-CHROMIUM	10-DEC-07		nL Plastic				
Solid	S	SW6020-LEAD	10-DEC-07		nL Plastic				
Solid	S	SW6020-NICKEL	10-DEC-07		nL Plastic				
Solid	S	SW7471-MERCURY	11-JUL-07	50g G	ldəsi				
Solid	S	TS	13-JUL-07						

Total Samples: 6

Total Analyses:

68





July 6, 2007

Ms. Kristen Durocher ENSR 7041 Old Wake Forest Rd. Suite 103 Raleigh,NC 27616

RE: Katahdin Lab Number:

SA2977

Project ID:

04739-003 MCRRF

Project Manager:

Mrs. Andrea Colby

Sample Receipt Date(s):

June 14, 2007

Dear Ms. Durocher:

Please find enclosed the following information:

- * Report of Analysis (Analytical and/or Field)
- * Quality Control Data Summary
- * Chain of Custody (COC)
- * Login Report

A copy of the Chain of Custody is included in the paginated report. The original COC is attached as an addendum to this report.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact the project manager listed above. This cover letter is an integral part of the ROA.

We certify that the test results provided in this report meet all the requirements of the NELAC standards unless otherwise noted in an attached technical narrative or in the Report of Analysis.

We appreciate your continued use of our laboratory and look forward to working with you in the future. The following signature indicates technical review and acceptance of the data.

Sincerely,

KATAHDIN ANALYTICAL SERVICES

aleborah J. Nadeau	07/06/2007
Authorized Signature	Date

DATA QUALIFIERS

- U Indicates the compound was analyzed for but not detected above the laboratory Practical Quantitation Limit.
- * Compound recovery outside of quality control limits.
- D Indicates the result was obtained from analysis of a diluted sample. Surrogate recoveries may not be calculable.
- E Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.
- J Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Practical Quantitation Limit (PQL), but above the Method Detection Limit (MDL).
- B Organics- Indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample.

 Metals- Indicates the analyte was detected in the sample at a concentration greater than the instrument detection limit, but less than the laboratory's Practical Quantitation Level.
- N Presumptive evidence of a compound based on a mass spectral library search.
- A Indicates that a tentatively identified compound is a suspected aldol-condensation product.
- P Used for Pesticide/Aroclor analyte when there is a greater than 25% difference for detected concentrations between the two GC columns.
- MCL Maximum Contaminant Level
- NL No limit
- NFL No Free Liquid Present
- FLP Free Liquid Present
- NOD No Odor Detected

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services

Client Field ID: EFBG01AAF

Matrix: TISSUE

SDG Name:

SA2977

Percent Solids: 0.00

Lab Sample ID: SA2977-001

Concentration Units: mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQLAdju	sted MDL
7440-38-2	ARSENIC, TOTAL	0.11	U		MS	5	0.32	0.11
7440-41-7	BERYLLIUM, TOTAL	0.01	U		MS	5	0.064	0.01
7440-43-9	CADMIUM, TOTAL	0.01	U		MS	5	0.064	0.01
7440-47-3	CHROMIUM, TOTAL	0.30			MS	5	0.19	0.12
7439-92-1	LEAD, TOTAL	0.03	В		MS	5	0.064	0.02
7439-97-6	MERCURY, TOTAL	0.06		N	CV	1	0.037	0.01
7440-02-0	NICKEL, TOTAL	0.05	В		MS	5	0.064	0.02

Bottle ID: A

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services

Client Field ID: EFBG02AAF

Matrix: TISSUE

SDG Name:

SA2977

Percent Solids: 0.00

Lab Sample ID: SA2977-002

Concentration Units: mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQLAdju	isted MDL
7440-38-2	ARSENIC, TOTAL	0.13	U		MS	5	0.38	0.13
7440-41-7	BERYLLIUM, TOTAL	0.01	U		MS	5	0.075	0.01
7440-43-9	CADMIUM, TOTAL	0.01	U		MS	5	0.075	0.01
7440-47-3	CHROMIUM, TOTAL	0.32			MS	5	0.22	0.14
7439-92-1	LEAD, TOTAL	0.03	В		MS	5	0.075	0.02
7439-97-6	MERCURY, TOTAL	0.07		N	CV	1	0.037	0.01
7440-02-0	NICKEL, TOTAL	0.06	В		MS	5	0.075	0.03

Bottle ID: A

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services

Client Field ID: SLBG02AAF

Matrix: TISSUE

SDG Name:

SA2977

Percent Solids: 0.00

Lab Sample ID: SA2977-003

Concentration Units: mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQLAdjus	ted MDL
7440-38-2	ARSENIC, TOTAL	0.10	U		MS	5	0.30	0.10
7440-41-7	BERYLLIUM, TOTAL	0.01	U		MS	5	0.061	0.01
7440-43-9	CADMIUM, TOTAL	0.01	U		MS	5	0.061	0.01
7440-47-3	CHROMIUM, TOTAL	0.20			MS	5	0.18	0.11
7439-92-1	LEAD, TOTAL	0.02	U		MS	5	0.061	0.02
7439-97-6	MERCURY, TOTAL	0.11		N	CV	1	0.036	0.01
7440-02-0	NICKEL, TOTAL	0.03	В		MS	5	0.061	0.02

Bottle ID: A

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services

Client Field ID: SLLMB01AAF

Matrix: TISSUE

SDG Name:

SA2977

Percent Solids: 0.00

Lab Sample ID: SA2977-004

Concentration Units: mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQLA	djusted MDL
7440-38-2	ARSENIC, TOTAL	0.13	U		MS	5	0.38	0.13
7440-41-7	BERYLLIUM, TOTAL	0.01	U		MS	5	0.076	0.01
7440-43-9	CADMIUM, TOTAL	0.01	U		MS	5	0.076	0.01
7440-47-3	CHROMIUM, TOTAL	0.27			MS	5	0.23	0.14
7439-92-1	LEAD, TOTAL	0.03	В		MS	5	0.076	0.02
7439-97-6	MERCURY, TOTAL	0.49		N	CV	1	0.036	0.01
7440-02-0	NICKEL, TOTAL	0.03	U		MS	5	0.076	0.03

Bottle ID: A

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services

Client Field ID: SLLMB02AAF

Matrix: TISSUE

SDG Name:

SA2977

Percent Solids: 0.00

Lab Sample ID: SA2977-005

Concentration Units: mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQLAdjusted	MDL
7440-38-2	ARSENIC, TOTAL	0.10	U		MS	5	0.29	0.10
7440-41-7	BERYLLIUM, TOTAL	0.01	U		MS	5	0.058	0.01
7440-43-9	CADMIUM, TOTAL	0.01	U		MS	5	0.058	0.01
7440-47-3	CHROMIUM, TOTAL	0.22			MS	5	0.17	0.10
7439-92-1	LEAD, TOTAL	0.02	U		MS	5	0.058	0.02
7439-97-6	MERCURY, TOTAL	0.50		N	CV	1	0.032	0.01
7440-02-0	NICKEL, TOTAL	0.02	U		MS	5	0.058	0.02

Bottle ID: A

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services

Client Field ID: SLBG01AAF

Matrix: TISSUE

SDG Name:

SA2977

Percent Solids: 0.00

Lab Sample ID: SA2977-006

Concentration Units: mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQLAd	justed MDL
7440-38-2	ARSENIC, TOTAL	0.12	U		MS	5	0.36	0.12
7440-41-7	BERYLLIUM, TOTAL	0.01	U		MS	5	0.073	0.01
7440-43-9	CADMIUM, TOTAL	0.01	U		MS	5	0.073	0.01
7440-47-3	CHROMIUM, TOTAL	0.19	В		MS	5	0.22	0.13
7439-92-1	LEAD, TOTAL	0.03	В		MS	5	0.073	0.02
7439-97-6	MERCURY, TOTAL	0.14		N	CV	1	0.037	0.01
7440-02-0	NICKEL, TOTAL	0.03	В		MS	5	0.073	0.03

Bottle ID: B

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services

Client Field ID: LFLMB01AAF

Matrix: TISSUE

SDG Name:

SA2977

Percent Solids: 0.00

Lab Sample ID: SA2977-007

Concentration Units: mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQLAdju	sted MDL
7440-38-2	ARSENIC, TOTAL	0.14	U		MS	5	0.40	0.14
7440-41-7	BERYLLIUM, TOTAL	0.01	U		MS	5	0.080	0.01
7440-43-9	CADMIUM, TOTAL	0.01	U		MS	5	0.080	0.01
7440-47-3	CHROMIUM, TOTAL	0.26			MS	5	0.24	0.14
7439-92-1	LEAD, TOTAL	0.03	В		MS	5	0.080	0.02
7439-97-6	MERCURY, TOTAL	0.47		N	CV	1	0.034	0.01
7440-02-0	NICKEL, TOTAL	0.03	U		MS	5	0.080	0.03

Bottle ID: B

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services

Client Field ID: LFLMB02AAF

Matrix: TISSUE

SDG Name:

SA2977

Percent Solids: 0.00

Lab Sample ID: SA2977-008

Concentration Units: mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQLAdju	sted MDL
7440-38-2	ARSENIC, TOTAL	0.12	U		MS	5	0.34	0.12
7440-41-7	BERYLLIUM, TOTAL	0.01	U		MS	5	0.069	0.01
7440-43-9	CADMIUM, TOTAL	0.01	U		MS	5	0.069	0.01
7440-47-3	CHROMIUM, TOTAL	0.22			MS	5	0.21	0.12
7439-92-1	LEAD, TOTAL	0.03	В		MS	5	0.069	0.02
7439-97-6	MERCURY, TOTAL	0.13		N	CV	1	0.036	0.01
7440-02-0	NICKEL, TOTAL	0.02	В		MS	5	0.069	0.02

Bottle ID: A

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services Client Field ID: LFBG01AAF

Matrix: TISSUE SDG Name: SA2977

Percent Solids: 0.00 Lab Sample ID: SA2977-009

Concentration Units: mg/Kg

CAS No.	Analyte	Concentration	C	Q	\mathbf{M}	DF	Adjusted PQLAdju	usted MDL
7440-38-2	ARSENIC, TOTAL	0.14	U		MS	5	0.41	0.14
7440-41-7	BERYLLIUM, TOTAL	0.01	U		MS	5	0.081	0.01
7440-43-9	CADMIUM, TOTAL	0.01	U		MS	5	0.081	0.01
7440-47-3	CHROMIUM, TOTAL	0.19	В		MS	5	0.24	0.15
7439-92-1	LEAD, TOTAL	0.04	В		MS	5	0.081	0.02
7439-97-6	MERCURY, TOTAL	0.07		N	CV	1	0.038	0.01
7440-02-0	NICKEL, TOTAL	0.03	В		MS	5	0.081	0.03

Bottle ID: B

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services Client Field ID: LFBG02AAF

Matrix: TISSUE SDG Name: SA2977

Percent Solids: 0.00 Lab Sample ID: SA2977-010

Concentration Units: mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQLAdju	usted MDL
7440-38-2	ARSENIC, TOTAL	0.12	U		MS	5	0.35	0.12
7440-41-7	BERYLLIUM, TOTAL	0.01	U		MS	5	0.069	0.01
7440-43-9	CADMIUM, TOTAL	0.01	U		MS	5	0.069	0.01
7440-47-3	CHROMIUM, TOTAL	0.17	В		MS	5	0.21	0.12
7439-92-1	LEAD, TOTAL	0.03	В		MS	5	0.069	0.02
7439-97-6	MERCURY, TOTAL	0.08		N	CV	1	0.036	0.01
7440-02-0	NICKEL, TOTAL	0.02	В		MS	5	0.069	0.02

Bottle ID: B

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services Client Field ID: AJH01AA

Matrix: SOIL SDG Name: SA2977

Percent Solids: 87.5 Lab Sample ID: SA2977-011

Concentration Units: mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQLAdju	usted MDL
7440-38-2	ARSENIC, TOTAL	0.15	U		MS	5	0.45	0.15
7440-41-7	BERYLLIUM, TOTAL	0.01	U		MS	5	0.090	0.01
7440-43-9	CADMIUM, TOTAL	0.06	В		MS	5	0.090	0.01
7440-47-3	CHROMIUM, TOTAL	1.8			MS	5	0.27	0.16
7439-92-1	LEAD, TOTAL	0.16			MS	5	0.090	0.03
7439-97-6	MERCURY, TOTAL	0.02	В	N	CV	1	0.044	0.01
7440-02-0	NICKEL, TOTAL	0.57			MS	5	0.090	0.03

Bottle ID: A





Report of Analytical Results

Client: Kristen Durocher

ENSR

7041 Old Wake Forest Rd.

Raleigh, NC 27616

Lab Sample ID: SA2977-11 **Report Date:** 02-JUL-07

Client PO:

Project: 04739-003 MCRRF

SDG: SA2977

Sample Description

АЈН01АА

Matrix

Date Sampled

Date Received

SL

11-JUN-07

14-JUN-07

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	88. %	1	CLP SOW 788	WG40454	25-JUN-07 14:28:00	CLP SOW 788	22-JUN-07	СР	

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services

Client Field ID: AJH02AA

Matrix: SOIL

SDG Name:

SA2977

Percent Solids: 87.5

Lab Sample ID: SA2977-012

Concentration Units: mg/Kgdrywt

CAS No.	. Analyte Concentration C Q		M	DF	Adjusted PQLAdjusted MDL			
7440-38-2	ARSENIC, TOTAL	0.16	U		MS	5	0.46	0.16
7440-41-7	BERYLLIUM, TOTAL	0.01	U		MS	5	0.093	0.01
7440-43-9	CADMIUM, TOTAL	0.01	U		MS	5	0.093	0.01
7440-47-3	CHROMIUM, TOTAL	0.74			MS	5	0.28	0.17
7439-92-1	LEAD, TOTAL	0.06	В		MS	5	0.093	0.03
7439-97-6	MERCURY, TOTAL	0.01	U		CV	1	0.034	0.01
7440-02-0	NICKEL, TOTAL	0.25			MS	5	0.093	0.03

Bottle ID: A





Report of Analytical Results

Client: Kristen Durocher

ENSR

7041 Old Wake Forest Rd.

Raleigh, NC 27616

Lab Sample ID: SA2977-12 **Report Date:** 02-JUL-07

Client PO:

Project: 04739-003 MCRRF

SDG: SA2977

Sample Description

AJH02AA

Matrix Date Sampled

Date Received

SL 11-JUN-07

14-JUN-07

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	88. %	1	CLP SOW 788	WG40453	25-JUN-07 14:20:00	CLP SOW 788	22-JUN-07	СР	

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services Client Field ID: RHH01AA

Matrix: SOIL SDG Name: SA2977

Percent Solids: 50.5 Lab Sample ID: SA2977-013

Concentration Units: mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQLAdju	sted MDL
7440-38-2	ARSENIC, TOTAL	0.27	U		MS	5	0.78	0.27
7440-41-7	BERYLLIUM, TOTAL	0.02	U		MS	5	0.16	0.02
7440-43-9	CADMIUM, TOTAL	0.04	В		MS	5	0.16	0.02
7440-47-3	CHROMIUM, TOTAL	20.9			MS	5	0.47	0.28
7439-92-1	LEAD, TOTAL	0.15	В		MS	5	0.16	0.05
7439-97-6	MERCURY, TOTAL	0.01	U		CV	1	0.061	0.01
7440-02-0	NICKEL, TOTAL	1.4			MS	5	0.16	0.06

Bottle ID: A





Report of Analytical Results

Client: Kristen Durocher

ENSR

7041 Old Wake Forest Rd.

Raleigh, NC 27616

Lab Sample ID: SA2977-13 **Report Date:** 02-JUL-07

Client PO:

Project: 04739-003 MCRRF

SDG: SA2977

Sample Description

RHH01AA

Matrix Date Sampled

ed Date Received

SL

11-JUN-07

14-JUN-07

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	50. %	1	CLP SOW 788	WG40453	25-JUN-07 14:21:00	CLP SOW 788	22-JUN-07	СР	

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services Client Field ID: LFH01AA-R

Matrix: SOIL SDG Name: SA2977

Percent Solids: 87.6 Lab Sample ID: SA2977-014

Concentration Units: mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQLAdju	sted MDL
7440-38-2	ARSENIC, TOTAL	0.14	U		MS	5	0.40	0.14
7440-41-7	BERYLLIUM, TOTAL	0.01	U		MS	5	0.080	0.01
7440-43-9	CADMIUM, TOTAL	0.02	В		MS	5	0.080	0.01
7440-47-3	CHROMIUM, TOTAL	0.78			MS	5	0.24	0.14
7439-92-1	LEAD, TOTAL	0.22			MS	5	0.080	0.02
7439-97-6	MERCURY, TOTAL	0.02	В	N	CV	1	0.044	0.01
7440-02-0	NICKEL, TOTAL	0.40			MS	5	0.080	0.03

Bottle ID: A





Report of Analytical Results

Client: Kristen Durocher

ENSR

7041 Old Wake Forest Rd.

Raleigh, NC 27616

Lab Sample ID: SA2977-14 **Report Date:** 02-JUL-07

Client PO:

Project: 04739-003 MCRRF

SDG: SA2977

Sample Description

LFH01AA-R

Matrix

Date Sampled

Date Received

SL

12-JUN-07

14-JUN-07

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	88. %	1	CLP SOW 788	WG40453	25-JUN-07 14:22:00	CLP SOW 788	22-JUN-07	СР	

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services

Client Field ID: LFH01AB-R

Matrix: SOIL

SDG Name:

SA2977

Percent Solids: 88.6

Lab Sample ID: SA2977-015

Concentration Units: mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQLAdj	usted MDL
7440-38-2	ARSENIC, TOTAL	0.14	U		MS	5	0.42	0.14
7440-41-7	BERYLLIUM, TOTAL	0.01	U		MS	5	0.084	0.01
7440-43-9	CADMIUM, TOTAL	0.03	В		MS	5	0.084	0.01
7440-47-3	CHROMIUM, TOTAL	0.84			MS	5	0.25	0.15
7439-92-1	LEAD, TOTAL	0.25			MS	5	0.084	0.03
7439-97-6	MERCURY, TOTAL	0.01	U	N	CV	1	0.043	0.01
7440-02-0	NICKEL, TOTAL	0.38			MS	5	0.084	0.03

Bottle ID: A





Report of Analytical Results

Client: Kristen Durocher

ENSR

7041 Old Wake Forest Rd.

Raleigh, NC 27616

Lab Sample ID: SA2977-15 **Report Date:** 02-JUL-07

Client PO:

Project: 04739-003 MCRRF

SDG: SA2977

Sample Description

LFH01AB-R

Matrix

Date Sampled

Date Received

SL

12**-**JUN-07

14-JUN-07

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	89. %	1	CLP SOW 788	WG40454	25-JUN-07 14:26:00	CLP SOW 788	22-JUN-07	CP	

1 INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services

Client Field ID: LFH02AA-R

Matrix: SOIL

SDG Name:

SA2977

Percent Solids: 88.4

Lab Sample ID: SA2977-016

Concentration Units: mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	\mathbf{M}	DF	Adjusted PQLAdju	sted MDL
7440-38-2	ARSENIC, TOTAL	0.16	U		MS	5	0.48	0.16
7440-41-7	BERYLLIUM, TOTAL	0.01	U		MS	5	0.095	0.01
7440-43-9	CADMIUM, TOTAL	0.03	В		MS	5	0.095	0.01
7440-47-3	CHROMIUM, TOTAL	1.4			MS	5	0.28	0.17
7439-92-1	LEAD, TOTAL	0.27			MS	5	0.095	0.03
7439-97-6	MERCURY, TOTAL	0.01	U	N	CV	1	0.045	0.01
7440-02-0	NICKEL, TOTAL	0.41			MS	5	0.095	0.03

Bottle ID: A





Report of Analytical Results

Client: Kristen Durocher

ENSR

7041 Old Wake Forest Rd.

Raleigh, NC 27616

Lab Sample ID: SA2977-16 Report Date: 02-JUL-07

Client PO:

Project: 04739-003 MCRRF

SDG: SA2977

Sample Description

LFH02AA-R

Matrix

Date Sampled

Date Received

SL

12-JUN-07

14-JUN-07

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	88. %	l	CLP SOW 788	WG40453	25-JUN-07 14:23:00	CLP SOW 788	22-JUN-07	CP	

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services

Client Field ID: SLBG01ABF

Matrix: TISSUE

SDG Name:

SA2977

Percent Solids: 0.00

Lab Sample ID: SA2977-017

Concentration Units: mg/Kg

CAS No.	Analyte	Concentration	\mathbf{C}	Q	\mathbf{M}	DF	Adjusted PQLAdju	sted MDL
7440-38-2	ARSENIC, TOTAL	0.12	U		MS	5	0.36	0.12
7440-41-7	BERYLLIUM, TOTAL	0.01	U		MS	5	0.072	0.01
7440-43-9	CADMIUM, TOTAL	0.01	U		MS	5	0.072	0.01
7440-47-3	CHROMIUM, TOTAL	0.23			MS	5	0.22	0.13
7439-92-1	LEAD, TOTAL	0.06	В		MS	5	0.072	0.02
7439-97-6	MERCURY, TOTAL	0.12		N	CV	1	0.036	0.01
7440-02-0	NICKEL, TOTAL	0.03	В		MS	5	0.072	0.03

Bottle ID: B

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services Client Field ID: EFBG01AAW

Matrix: TISSUE SDG Name: SA2977

Percent Solids: 0.00 Lab Sample ID: SA2977-018

Concentration Units: mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQLAdj	usted MDL
7440-38-2	ARSENIC, TOTAL	0.14	U		MS	5	0.40	0.14
7440-41-7	BERYLLIUM, TOTAL	0.01	U		MS	5	0.081	0.01
7440-43-9	CADMIUM, TOTAL	0.01	U		MS	5	0.081	0.01
7440-47-3	CHROMIUM, TOTAL	0.50			MS	5	0.24	0.15
7439-92-1	LEAD, TOTAL	0.19			MS	5	0.081	0.02
7439-97-6	MERCURY, TOTAL	0.05		N	CV	1	0.037	0.01
7440-02-0	NICKEL, TOTAL	0.24			MS	5	0.081	0.03

Bottle ID: A

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services

Client Field ID: EFBG02AAW

Matrix: TISSUE

SDG Name:

SA2977

Percent Solids: 0.00

Lab Sample ID: SA2977-019

Concentration Units: mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQLAdjus	ted MDL
7440-38-2	ARSENIC, TOTAL	0.12	В		MS	5	0.30	0.10
7440-41-7	BERYLLIUM, TOTAL	0.01	U		MS	5	0.061	0.01
7440-43-9	CADMIUM, TOTAL	0.01	U		MS	5	0.061	0.01
7440-47-3	CHROMIUM, TOTAL	0.53			MS	5	0.18	0.11
7439-92-1	LEAD, TOTAL	0.21			MS	5	0.061	0.02
7439-97-6	MERCURY, TOTAL	0.05		N	CV	1	0.032	0.01
7440-02-0	NICKEL, TOTAL	0.29			MS	5	0.061	0.02

Bottle ID: A

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services Client Field ID: SLBG02AAW

Matrix: TISSUE SDG Name: SA2977

Percent Solids: 0.00 Lab Sample ID: SA2977-020

Concentration Units: mg/Kg

CAS No.	Analyte	Concentration	C	Q	\mathbf{M}	DF	Adjusted PQLAdju	sted MDL
7440-38-2	ARSENIC, TOTAL	0.11	U		MS	5	0.33	0.11
7440-41-7	BERYLLIUM, TOTAL	0.01	U		MS	5	0.066	0.01
7440-43-9	CADMIUM, TOTAL	0.01	U		MS	5	0.066	0.01
7440-47-3	CHROMIUM, TOTAL	0.18	В		MS	5	0.20	0.12
7439-92-1	LEAD, TOTAL	0.07			MS	5	0.066	0.02
7439-97-6	MERCURY, TOTAL	0.08		N	CV	1	0.032	0.01
7440-02-0	NICKEL, TOTAL	0.10			MS	5	0.066	0.02

Bottle ID: A

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services

Client Field ID: SLLMB01AAW

Matrix: TISSUE

SDG Name:

SA2977

Percent Solids: 0.00

Lab Sample ID: SA2977-021

 $\textbf{Concentration Units:} \ mg/Kg$

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQLAdju	sted MDL
7440-38-2	ARSENIC, TOTAL	0.11	U		MS	5	0.32	0.11
7440-41-7	BERYLLIUM, TOTAL	0.01	U		MS	5	0.065	0.01
7440-43-9	CADMIUM, TOTAL	0.01	В		MS	5	0.065	0.01
7440-47-3	CHROMIUM, TOTAL	0.26			MS	5	0.19	0.12
7439-92-1	LEAD, TOTAL	0.23			MS	5	0.065	0.02
7439-97-6	MERCURY, TOTAL	0.25		N	CV	1	0.038	0.01
7440-02-0	NICKEL, TOTAL	0.16			MS	5	0.065	0.02

Bottle ID: A

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services

Client Field ID: SLLMB02AAW

Matrix: TISSUE

SDG Name:

SA2977

Percent Solids: 0.00

Lab Sample ID: SA2977-022

Concentration Units: mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQLAdjusted MD	
7440-38-2	ARSENIC, TOTAL	0.09	U		MS	5	0.27	0.09
7440-41-7	BERYLLIUM, TOTAL	0.01	U		MS	5	0.053	0.01
7440-43-9	CADMIUM, TOTAL	0.03	В		MS	5	0.053	0.01
7440-47-3	CHROMIUM, TOTAL	0.14	В		MS	5	0.16	0.10
7439-92-1	LEAD, TOTAL	0.07			MS	5	0.053	0.02
7439-97-6	MERCURY, TOTAL	0.29		N	CV	1	0.037	0.01
7440-02-0	NICKEL, TOTAL	0.03	В		MS	5	0.053	0.02

Bottle ID: A

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services

Client Field ID: SLBG01ABW

Matrix: TISSUE

SDG Name:

SA2977

Percent Solids: 0.00

Lab Sample ID: SA2977-023

Concentration Units: mg/Kg

CAS No.	Analyte	Concentration	C	Q	\mathbf{M}	DF	Adjusted PQLAdju	sted MDL
7440-38-2	ARSENIC, TOTAL	0.11	U		MS	5	0.34	0.11
7440-41-7	BERYLLIUM, TOTAL	0.01	U		MS	5	0.067	0.01
7440-43-9	CADMIUM, TOTAL	0.01	U		MS	5	0.067	0.01
7440-47-3	CHROMIUM, TOTAL	0.28			MS	5	0.20	0.12
7439-92-1	LEAD, TOTAL	0.06	В		MS	5	0.067	0.02
7439-97-6	MERCURY, TOTAL	0.07		N	CV	1	0.036	0.01
7440-02-0	NICKEL, TOTAL	0.11			MS	5	0.067	0.02

Bottle ID: A

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services

Client Field ID: LFLMB01AAW

Matrix: TISSUE

SDG Name:

SA2977

Percent Solids: 0.00

Lab Sample ID: SA2977-024

Concentration Units: mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQLAdjus	ted MDL
7440-38-2	ARSENIC, TOTAL	0.10	U		MS	5	0.30	0.10
7440-41-7	BERYLLIUM, TOTAL	0.01	U		MS	5	0.060	0.01
7440-43-9	CADMIUM, TOTAL	0.01	U		MS	5	0.060	0.01
7440-47-3	CHROMIUM, TOTAL	0.21			MS	5	0.18	0.11
7439-92-1	LEAD, TOTAL	0.05	В		MS	5	0.060	0.02
7439-97-6	MERCURY, TOTAL	0.41		N	CV	1	0.027	0.01
7440-02-0	NICKEL, TOTAL	0.08			MS	5	0.060	0.02

Bottle ID: A

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services

Client Field ID: LFLMB02AAW

Matrix: TISSUE

SDG Name:

SA2977

Percent Solids: 0.00

Lab Sample ID: SA2977-025

 $\textbf{Concentration Units:} \ mg/Kg$

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQLAd	justed MDL
7440-38-2	ARSENIC, TOTAL	0.13	U		MS	5	0.38	0.13
7440-41-7	BERYLLIUM, TOTAL	0.01	U		MS	5	0.076	0.01
7440-43-9	CADMIUM, TOTAL	0.01	В		MS	5	0.076	0.01
7440-47-3	CHROMIUM, TOTAL	0.78			MS	5	0.23	0.14
7439-92-1	LEAD, TOTAL	0.1			MS	5	0.076	0.02
7439-97-6	MERCURY, TOTAL	0.05		N	CV	1	0.034	0.01
7440-02-0	NICKEL, TOTAL	0.36			MS	5	0.076	0.03

Bottle ID: A

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services Client Field ID: LFBG01AAW

Matrix: TISSUE SDG Name: SA2977

Percent Solids: 0.00 Lab Sample ID: SA2977-026

Concentration Units: mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQLAdjusted M	
7440-38-2	ARSENIC, TOTAL	0.12	U		MS	5	0.34	0.12
7440-41-7	BERYLLIUM, TOTAL	0.01	U		MS	5	0.068	0.01
7440-43-9	CADMIUM, TOTAL	0.01	U		MS	5	0.068	0.01
7440-47-3	CHROMIUM, TOTAL	0.37			MS	5	0.20	0.12
7439-92-1	LEAD, TOTAL	0.04	В		MS	5	0.068	0.02
7439-97-6	MERCURY, TOTAL	0.03	В	N	CV	1	0.029	0.01
7440-02-0	NICKEL, TOTAL	0.13			MS	5	0.068	0.02

Bottle ID: A

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services

Client Field ID: LFBG02AAW

Matrix: TISSUE

SDG Name: SA2977

Percent Solids: 0.00

Lab Sample ID: SA2977-027

Concentration Units: mg/Kg

CAS No.	Analyte	Concentration	C	Q	\mathbf{M}	DF	Adjusted PQLAdju	isted MDL
7440-38-2	ARSENIC, TOTAL	0.11	U		MS	5	0.33	0.11
7440-41-7	BERYLLIUM, TOTAL	0.01	U		MS	5	0.066	0.01
7440-43-9	CADMIUM, TOTAL	0.01	U		MS	5	0.066	0.01
7440-47-3	CHROMIUM, TOTAL	0.20			MS	5	0.20	0.12
7439-92-1	LEAD, TOTAL	0.07			MS	5	0.066	0.02
7439-97-6	MERCURY, TOTAL	0.03		N	CV	1	0.024	0.01
7440-02-0	NICKEL, TOTAL	0.16			MS	5	0.066	0.02

Bottle ID: A

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services

Client Field ID: SLBG01AAW

Matrix: TISSUE

SDG Name:

SA2977

Percent Solids: 0.00

Lab Sample ID: SA2977-028

Concentration Units: mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQLAdjusted MI	
7440-38-2	ARSENIC, TOTAL	0.11	U		MS	5	0.33	0.11
7440-41-7	BERYLLIUM, TOTAL	0.01	U		MS	5	0.065	0.01
7440-43-9	CADMIUM, TOTAL	0.01	U		MS	5	0.065	0.01
7440-47-3	CHROMIUM, TOTAL	0.19	В		MS	5	0.20	0.12
7439-92-1	LEAD, TOTAL	0.07			MS	5	0.065	0.02
7439-97-6	MERCURY, TOTAL	0.07		N	CV	1	0.025	0.01
7440-02-0	NICKEL, TOTAL	0.09			MS	5	0.065	0.02

Bottle ID: A

3P PREPARATION BLANKS

Lab Name: Katahdin Analytical Services Sample ID: PBSXF26ICS0

Matrix: SOIL SDG Name: SA2977

QC Batch ID: XF26ICS0

Analyte	RESULT	C	
ARSENIC	0.170	U	
BERYLLIUM	-0.014	В	
CADMIUM	0.010	U	
CHROMIUM	0.298	В	
LEAD	0.030	U	
NICKEL	0.030	U	

7 LABORATORY CONTROL SAMPLES

Lab Name: Katahdin Analytical Services Sample ID: LCSSXF26ICS0

Matrix: SOIL SDG Name: SA2977

QC Batch ID: XF26ICS0

Analyte	TRUE	FOUND	% R	LIMIT	S (%)
ARSENIC	289.0	262.17	90.7	81	119
BERYLLIUM	54.4	47.92	88.1	83	117
CADMIUM	101.0	94.89	94.0	82	118
CHROMIUM	224.0	214.29	95.7	80	120
LEAD	158.0	142.46	90.2	82	118
NICKEL	120.0	108.46	90.4	83	118

3P PREPARATION BLANKS

Lab Name: Katahdin Analytical Services

Sample ID: PBSXF26ICS1

Matrix: SOIL

SDG Name: SA2977

QC Batch ID: XF26ICS1

Analyte	RESULT	C	
ARSENIC	0.170	U	
BERYLLIUM	0.010	U	
CADMIUM	0.010	U	
CHROMIUM	0.180	U	
LEAD	0.040	В	
NICKEL	0.035	В	

7 LABORATORY CONTROL SAMPLES

Lab Name: Katahdin Analytical Services Sample ID: LCSSXF26ICS1

Matrix: SOIL SDG Name: SA2977

QC Batch ID: XF26ICS1

Analyte	TRUE	FOUND % R		LIMIT	S (%)
ARSENIC	289.0	271.10	93.8	81	119
BERYLLIUM	54.4	55.10	101.3	83	117
CADMIUM	101.0	99.10	98.1	82	118
CHROMIUM	224.0	211.98	94.6	80	120
LEAD	158.0	149.92	94.9	82	118
NICKEL	120.0	112.24	93.5	83	118

3P PREPARATION BLANKS

Lab Name: Katahdin Analytical Services

Sample ID: PBSXG02HGS0

Matrix: SOIL

SDG Name: SA2977

QC Batch ID: XG02HGS0

Analyte	RESULT	C	
MERCURY	0.010	U	

7 LABORATORY CONTROL SAMPLES

Lab Name: Katahdin Analytical Services Sample ID: LCSSXG02HGS0

Matrix: SOIL SDG Name: SA2977

QC Batch ID: XG02HGS0

Analyte	TRUE	FOUND	% R	LIMITS	(,
MERCURY	5.2	5.18	99.6	66	133

3P PREPARATION BLANKS

Lab Name: Katahdin Analytical Services

Sample ID: PBSXG03HGS1

Matrix: SOIL

SDG Name: SA2977

QC Batch ID: XG03HGS1

Analyte	RESULT	C	
MERCURY	0.010	U	

7 LABORATORY CONTROL SAMPLES

Lab Name: Katahdin Analytical Services Sample ID: LCSSXG03HGS1

Matrix: SOIL SDG Name: SA2977

QC Batch ID: XG03HGS1

Analyte	TRUE	FOUND	% R	LIMITS (%)
MERCURY	5.2	5.65	108.7	66 133

3P PREPARATION BLANKS

Lab Name: Katahdin Analytical Services Sample ID: PBSXG03HGS2

Matrix: SOIL SDG Name: SA2977

QC Batch ID: XG03HGS2

Analyte	RESULT	C	
MERCURY	0.010	U	

7 LABORATORY CONTROL SAMPLES

Lab Name: Katahdin Analytical Services Sample ID: LCSSXG03HGS2

Matrix: SOIL SDG Name: SA2977

QC Batch ID: XG03HGS2

Analyte	TRUE	FOUND	% R	LIMITS (%)
MERCURY	5.2	5.54	106.5	66 133

Lab Name: Katahdin Analytical Services

Client Field ID: LFLMB01AAFS

SA2977

Matrix: TISSUE

SDG Name:

Percent Solids: 0.00

Lab Sample ID: SA2977-007S

 ${\bf Concentration\ Units:mg/Kgdrywt}$

	Spiked	Sample	Spike		Control Li	nits (%R)	
Analyte	Sample Result C	Result C	Added	%R Q	Low	High	M
ARSENIC, TOTAL	35.7829	0.0207 U	38.76	92.3	75	125	MS
BERYLLIUM, TOTAL	3.4760	-0.0121 U	3.88	89.6	75	125	MS
CADMIUM, TOTAL	19.0465	-0.0083 U	19.38	98.3	75	125	MS
CHROMIUM, TOTAL	14.7442	0.2584	15.5	93.5	75	125	MS
LEAD, TOTAL	35.0930	0.0273 B	38.76	90.5	75	125	MS
MERCURY, TOTAL	0.8954	0.4667	0.37	115.9	75	125	CV
NICKEL, TOTAL	36.6744	0.0250 U	38.76	94.6	75	125	MS

Lab Name: Katahdin Analytical Services

Client Field ID: LFLMB01AAFS

Matrix: TISSUE

SDG Name:

SA2977

Percent Solids: 0.00

Lab Sample ID: SA2977-007P

Concentration Units: mg/Kgdrywt

	Spiked	Sample	Spike		Control Lin	mits (%R)	
Analyte	Sample Result C	Result C	Added	%R Q	Low	High	M
ARSENIC, TOTAL	38.1935	0.0207 U	40.32	94.7	75	125	MS
BERYLLIUM, TOTAL	3.6637	-0.0121 U	4.03	90.9	75	125	MS
CADMIUM, TOTAL	20.1290	-0.0083 U	20.16	99.8	75	125	MS
CHROMIUM, TOTAL	15.6290	0.2584	16.13	95.3	75	125	MS
LEAD, TOTAL	37.3468	0.0273 B	40.32	92.6	75	125	MS
MERCURY, TOTAL	0.8523	0.4667	0.36	107.1	75	125	CV
NICKEL, TOTAL	38.5645	0.0250 U	40.32	95.6	75	125	MS

5D SPIKE DUPLICATES

Lab Name: Katahdin Analytical Services Client Field ID: LFLMB01AAF

Matrix: TISSUE SDG Name: SA2977

Percent Solids: 0.00 Lab Sample ID: SA2977-007

Concentration Units: mg/Kgdrywt

Analyte	Control Limits	Spike Result (C Spike Dup. Result C	RPD	Q	M
ARSENIC, TOTAL		35.7829	38.1935	6.5		MS
BERYLLIUM, TOTAL	0.78	3.4760	3.6637	5.3		MS
CADMIUM, TOTAL		19.0465	20.1290	5.5		MS
CHROMIUM, TOTAL		14.7442	15.6290	5.8		MS
LEAD, TOTAL		35.0930	37.3468	6.2		MS
MERCURY, TOTAL		0.8954	0.8523	4.9		CV
NICKEL, TOTAL		36.6744	38.5645	5.0		MS

9 ICP SERIAL DILUTION

Lab Name: Katahdin Analytical Services

Client Field ID: LFLMB01AAFL

Matrix: TISSUE

SDG Name: SA2977

Lab Sample ID: SA2977-007L

Concentration Units: ug/L

Analyte	Sample Result	C	Dilution Result	C	% Difference	Q	M
ARSENIC, TOTAL	0.05	U	0.70	U			MS
BERYLLIUM, TOTAL	-0.03	U	-0.15	U			MS
CADMIUM, TOTAL	-0.02	U	-0.02	U			MS
CHROMIUM, TOTAL	0.65	В	0.71	U	100.0		MS
LEAD, TOTAL	0.07	В	0.02	U	100.0		MS
NICKEL, TOTAL	0.06	U	0.08	U			MS

Lab Name: Katahdin Analytical Services

Client Field ID: AJH01AAS

Matrix: SOIL

SDG Name:

SA2977

Percent Solids: 87.5

Lab Sample ID: SA2977-011S

Concentration Units: mg/Kgdrywt

	Spiked	Sample	Spike	(Control Li	mits (%R)	
Analyte	Sample Result C	Result C	Added	%R Q	Low	High	M
ARSENIC, TOTAL	39.6418	0.0714 U	44.99	88.1	75	125	MS
BERYLLIUM, TOTAL	4.1918	0.0004 U	4.5	93.2	75	125	MS
CADMIUM, TOTAL	20.5497	0.0657 B	22.49	91.1	75	125	MS
CHROMIUM, TOTAL	17.9495	1.7531	17.99	90.0	75	125	MS
LEAD, TOTAL	39.3629	0.1561	44.99	87.1	75	125	MS
MERCURY, TOTAL	0.2512	0.0193 B	0.46	50.4 N	75	125	CV
NICKEL, TOTAL	40.5685	0.5695	44.99	88.9	75	125	MS

Lab Name: Katahdin Analytical Services

Client Field ID: AJH01AAS

Matrix: SOIL

SDG Name:

SA2977

Percent Solids: 87.5

Lab Sample ID: SA2977-011P

Concentration Units: mg/Kgdrywt

	Spiked	Sample	Spike		Control Li	mits (%R)	
Analyte	Sample Result C	Result C	Added	%R Q	Low	High	M
ARSENIC, TOTAL	40.3230	0.0714 U	44.63	90.3	75	125	MS
BERYLLIUM, TOTAL	3.9645	0.0004 U	4.46	88.9	75	125	MS
CADMIUM, TOTAL	20.7998	0.0657 B	22.32	92.9	75	125	MS
CHROMIUM, TOTAL	17.3183	1.7531	17.85	87.2	75	125	MS
LEAD, TOTAL	39.9391	0.1561	44.63	89.1	75	125	MS
MERCURY, TOTAL	0.4223	0.0193 B	0.44	91.6	75	125	CV
NICKEL, TOTAL	39.2250	0.5695	44.63	86.6	75	125	MS

5D SPIKE DUPLICATES

Lab Name: Katahdin Analytical Services

Client Field ID: AJH01AA

Matrix: SOIL

SDG Name:

SA2977

Percent Solids: 87.5

Lab Sample ID: SA2977-011

Concentration Units: mg/Kgdrywt

Analyte	Control Limits	Spike Result	C Spike Dup. Result C	RPD	Q	M
ARSENIC, TOTAL		39.6418	40.3230	1.7		MS
BERYLLIUM, TOTAL	0.9	4.1918	3.9645	5.6		MS
CADMIUM, TOTAL		20.5497	20.7998	1.2		MS
CHROMIUM, TOTAL		17.9495	17.3183	3.6		MS
LEAD, TOTAL		39.3629	39.9391	1.5		MS
MERCURY, TOTAL		0.2512	0.4223	50.8	*	CV
NICKEL, TOTAL		40.5685	39.2250	3.4		MS

9 ICP SERIAL DILUTION

Lab Name: Katahdin Analytical Services

Client Field ID: AJH01AAL

Matrix: SOIL

SDG Name:

SA2977

Lab Sample ID: SA2977-011L

Concentration Units: ug/L

Analyte	Sample Result	C	Dilution Result	C	% Difference	Q	M
ARSENIC, TOTAL	0.16	U	0.61	U			MS
BERYLLIUM, TOTAL	0.00	U	-0.06	U			MS
CADMIUM, TOTAL	0.15	В	0.12	U	100.0		MS
CHROMIUM, TOTAL	3.90		3.68	В	5.6		MS
LEAD, TOTAL	0.35	В	0.29	U	100.0		MS
MERCURY, TOTAL	0.09	В	-0.01	U	100.0		CV
NICKEL, TOTAL	1.27		1.25	В	1.6		MS

Lab Name: Katahdin Analytical Services

Client Field ID: SLLMB02AAWS

SA2977

Matrix: TISSUE

SDG Name:

Percent Solids: 0.00

Lab Sample ID: SA2977-022S

Concentration Units: mg/Kgdrywt

	Spiked	Sample	Spike		Control Limits (%R)			
Analyte	Sample Result C	Result C	Added	%R Q	Low	High	M	
ARSENIC, TOTAL	24.2086	0.0412 U	26.74	90.5	75	125	MS	
BERYLLIUM, TOTAL	2.1150	-0.0077 U	2.67	79.2	75	125	MS	
CADMIUM, TOTAL	12.2353	0.0295 B	13.37	91.3	75	125	MS	
CHROMIUM, TOTAL	10.2781	0.1410 B	10.7	94.7	75	125	MS	
LEAD, TOTAL	23.4813	0.0737	26.74	87.5	75	125	MS	
NICKEL, TOTAL	24.6578	0.0308 B	26.74	92.1	75	125	MS	

Lab Name: Katahdin Analytical Services

Client Field ID: SLLMB02AAWS

Matrix: TISSUE

SDG Name: SA2977

Percent Solids: 0.00

Lab Sample ID: SA2977-022P

Concentration Units: mg/Kgdrywt

	Spiked	Sample	Spike		Control Lin	mits (%R)	
Analyte	Sample Result C	Result C	Added	%R Q	Low	High	M
ARSENIC, TOTAL	24.2819	0.0412 U	26.6	91.3	75	125	MS
BERYLLIUM, TOTAL	2.2160	-0.0077 U	2.66	83.3	75	125	MS
CADMIUM, TOTAL	12.7926	0.0295 B	13.3	96.0	75	125	MS
CHROMIUM, TOTAL	10.4521	0.1410 B	10.64	96.9	75	125	MS
LEAD, TOTAL	23.8723	0.0737	26.6	89.5	75	125	MS
NICKEL, TOTAL	24.8032	0.0308 B	26.6	93.1	75	125	MS

5D SPIKE DUPLICATES

Lab Name: Katahdin Analytical Services Client Field ID: SLLMB02AAW

Matrix: TISSUE SDG Name: SA2977

Percent Solids: 0.00 Lab Sample ID: SA2977-022

Concentration Units: mg/Kgdrywt

Analyte	Control Limits	Spike Result C	Spike Dup. Result C	RPD	Q	M
ARSENIC, TOTAL		24.2086	24.2819	0.3		MS
BERYLLIUM, TOTAL	0.53	2.1150	2.2160	4.7		MS
CADMIUM, TOTAL		12.2353	12.7926	4.5		MS
CHROMIUM, TOTAL		10.2781	10.4521	1.7		MS
LEAD, TOTAL		23.4813	23.8723	1.7		MS
NICKEL, TOTAL		24.6578	24.8032	0.6		MS

9 ICP SERIAL DILUTION

Lab Name: Katahdin Analytical Services

Client Field ID: SLLMB02AAWL

Matrix: TISSUE

SDG Name: SA2977

Lab Sample ID: SA2977-022L

Concentration Units: ug/L

Analyte	Sample Result	C	Dilution Result	C	% Difference	Q	M
ARSENIC, TOTAL	0.15	U	0.48	U			MS
BERYLLIUM, TOTAL	-0.03	U	-0.15	U			MS
CADMIUM, TOTAL	0.11	В	0.08	U	100.0		MS
CHROMIUM, TOTAL	0.53	В	0.45	U	100.0		MS
LEAD, TOTAL	0.28	В	0.17	U	100.0		MS
NICKEL, TOTAL	0.12	В	0.12	U	100.0		MS

Lab Name: Katahdin Analytical Services

Client Field ID: LFLMB01AAWS

SA2977

Matrix: TISSUE

SDG Name:

Percent Solids: 0.00

Lab Sample ID: SA2977-024S

Concentration Units: mg/Kgdrywt

	Spiked	Sample	Spike			Control Lin	nits (%R)	
Analyte	Sample Result C	Result C	Added	%R	Q	Low	High	M
MERCURY, TOTAL	0.5953	0.4142	0.26	69.7	N	75	125	CV

Lab Name: Katahdin Analytical Services

Client Field ID: LFLMB01AAWS

Matrix: TISSUE

SDG Name:

SA2977

Percent Solids: 0.00

Lab Sample ID: SA2977-024P

Concentration Units: mg/Kgdrywt

	Spiked	Sample	Spike			Control Lir	nits (%R)	
Analyte	Sample Result C	Result C	Added	%R	Q	Low	High	M
MERCURY, TOTAL	0.6017	0.4142	0.26	72.1	N	75	125	CV

5D SPIKE DUPLICATES

Lab Name: Katahdin Analytical Services

Client Field ID: LFLMB01AAW

Matrix: TISSUE

SDG Name:

SA2977

Percent Solids: 0.00

Lab Sample ID: SA2977-024

Concentration Units: mg/Kgdrywt

Analyte	Control Limits	Spike Result	C Spike Dup. Result	C RPD	Q	M
MERCURY, TOTAL		0.5953	0.6017	1.1		CV

9 ICP SERIAL DILUTION

Lab Name: Katahdin Analytical Services

Client Field ID: LFLMB01AAWL

Matrix: TISSUE

SDG Name:

SA2977

Lab Sample ID: SA2977-024L

Concentration Units: ug/L

Analyte	Sample Result (C	Dilution Result	C	% Difference	Q	M
MERCURY, TOTAL	3.06		3.02		1.3		CV





Quality Control Report

Blank Sample Summary Report

Total Solids

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	<u>PQL</u>
MBLANK	WG40453	CLP SOW 788	25-JUN-07	22-JUN-07	U 1 %	1 %
MBLANK	WG40454	CLP SOW 788	25-JUN-07	22-JUN-07	U 1 %	1 %





Quality Control Report

Laboratory Control Sample Summary Report

Total Solids

Lab Sample Id	Samp Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amt.	Result	Recovery	Acceptance Range	RPD
WG40453-2	LCS	WG40453	25-JUN-07	22-JUN-07	%	90	90.	100	80-120	
WG40454-2	LCS	WG40454	25-JUN-07	22-JUN-07	%	90	90.	100	80-120	





Quality Control Report

Duplicate Sample Summary Report

Total Solids

Duplicate Sample ID	Original Sample ID	QC Batch	Analysis Date	Result Units	Sample Result	Duplicate Result	RPD(%)	RPD Limit	
WG40454-3	SA2977-15	WG40454	25-JUN-07	%	89.	87.	1	20	
WG40454-4	SA2977-11	WG40454	25-JUN-07	0/0	88.	87.	1	20	

SA2977 FISH SAMPLES

Client ID	Lab Sample ID	Weight	Date/Time Initials	ls Comments
EFBG01AA	SA2977-1	37.80a	ATT 00:01 MICES	Fillet
	SA2977-18	298.369	- So. 0)	Remainder
EFBG02AA	SA2977-2	29.439	01:01	Fillet
	SA2977-19	283.69ª	51:01	Remainder
SLBG02AA	SA2977-3	105,939	10 2:01	Fillet
	SA2977-20	435,420	10:25	Remainder
SLLMB01AA	SA2977-4	76.549	06:01	Fillet
	SA2977-21	252,06a	10:32	Remainder
SLLMB02AA	SA2977-5	99.74g	Qh;01	Fillet
	SA2977-22	747, 60g	54:01	Remainder
SLBG01AA/B	SA2977-6,17	170.569	05:01	Fillet
100000000000000000000000000000000000000	SA2977-28,23	1118.83a	\$5:01	Remainder
LFLMB01AA	SA2977-7	169,4100	00:11	Fillet
	SA2977-24	2028,230	50:11	Remainder
LFLMB02AA	SA2977-8	53.18g		Fillet
	SA2977-25	234.519	2	Remainder
LFBG01AA	SA2977-9	120,899	(7,11	Fillet
	SA2977-26	534.000	11.25	Remainder
LFBG02AA	SA2977-10	86.500	05:11	Fillet
	SA2977-27	554,02a	H 75:11 A	Remainder
		7		

Client: ENSR		KAS	SPM:	Asc		Sampled By: Clicnl-
Project:		KIM	S Entry	Ву: 🜔	Z.	Delivered By: FCDCx
KAS Work Order#: ১৯১৭		KIM	S Revie	ew By:	AL	Received By: DS
SDG #: Cooler:	2_	_ of _ <u>-</u>	3(red-1 Jeof Co	Cook Date/Tim	ne Rec.: 061407 1005
		-				
Receipt Criteria	Υ	N	EX*	NA	Com	nments and/or Resolution
Custody seals present / intact?	X					
2. Chain of Custody present in cooler?	X					
3. Chain of Custody signed by client?	X					
4. Chain of Custody matches samples?	X				.2	
5. Temperature Blanks present?		X			Temp (°C):	
6. Samples received at < 6 °C w/o freezing? Ice or ice packs present? or Naryuc	X				Cooler temp (if no temp b	o. (°C): — (). \
7. Volatiles free of headspace?				X		
Aqueous: No bubble larger than a pea Soil/Sediment:	-			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
Received in airtight container?				X		
Received in methanol?				Х		
Methanol covering soil?				X		
8. Trip Blank present in cooler?				X		
9. Proper sample containers and volume?	X					
10. Samples within hold time upon receipt?	X		-			
11. Aqueous samples properly preserved? Metals, COD, NH3, TKN, O/G, phenol,				Х		
TPO4, N+N, TOC, DRO, TPH – pH <2 Sulfide - >9				X		
Cyanide – pH >12				X		·
12. Corrective Action Report Filed?						
	. 1				· ·	Coloro Scholerois Scores and Applications of the Color of Scholerois and Applications of the Color of Scholerois and Color of
* Log-In Notes to Exceptions: document any	proble	ms wi	th san	nples	or discrepan	cies or pH adjustménts
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Natarium Analytical Services, Inc.

Client: FNX			KAS	SPM:	ASC		Sampled By: Clent
Project:			KIM	S Entry	BA: D	<u>ح</u>	Delivered By: FEDEX
KAS Work Order#: SA29 78			KIM	S Revie		pc	Received By: OS
SDG #: C	ooler: _	3	_ of3	3(ため:10 (ころ)	Date/Time	3 Rec.: 06140 1005
The state of the s					1	Y	
Receipt Criteria		Υ	N	EX*	NA	Com	ments and/or Resolution
Custody seals present / intact?		X					
2. Chain of Custody present in cooler?		X					
3. Chain of Custody signed by client?		X					
4. Chain of Custody matches samples?		X				'-	
5. Temperature Blanks present?			X			Temp (°C):	
6. Samples received at < 6 °C w/o freezing lce or ice packs present?	? dry ke	X				Cooler temp. (if no temp bl	(°C): ank)
7. Volatiles free of headspace?	•						
Aqueous: No bubble larger than a pea Soil/Sediment:					X		
Received in airtight container?					X		
Received in methanol?					X		
Methanol covering soil?					Χ		,
8. Trip Blank present in cooler?					X	,	
9. Proper sample containers and volume?		X				•	•
10. Samples within hold time upon receipt?		X			·		
 Aqueous samples properly preserved? Metals, COD, NH3, TKN, O/G, phenoi, 			-		X		
TPO4, N+N, TOC, DRO, TPH – pH <2 Sulfide - >9	2				χ		
Cyanide – pH >12	,				X		
12. Corrective Action Report Filed?							
* Log-In Notes to Exceptions: documer	nt any p	robler	ns wit	h sam	ples o	or discrepanc	ies or pH adjustménts
•							
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TASA.		CHAI	OF CUSTO	N OF CUSTODY RECORD	_				Page	/ o /
Client/Project Name:	Projec	Project Location:	2 3 3					Analysis Requested	equested	
Project Number: OH 739-003		Field Logbook No.:		A STATE STAT						
Sampler (Print Name)/(Affiliation):		Chain of Custody Tape No.:	1003 8	1001						
1/1/6	18 ¹ .	Send Results/Report to:	J. C. L.	J. L. Jones a						
Field Sample No./ Date 1	Time Grab Comp	je	Sample Type (Liquid, Sludge, Etc.)	Preservative Field Filtered				1	Lab I.D.	Remarks
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TIMERICATIONAL	СНА	CHAIN OF CUSTODY RECORD		Page Of SA
Client/Project Name:	Project Location:	£	Analysis Requested	
Project Number: 04729-003	Field Logbook No.:		The last the	
<u>U</u>	Chain of Custody Tape No.:	PSOFE \$ 1001 :0		
EN EN	Send Results/Report to:			
Field/Sample No./	Grab Comp Sample Contair (Size/Mat'l)		Lab I.D.:	Remarks
FLFLMBOIAA OUIII 1100	Ox WEIPLOC	fish 0%	MA X X X X X	3
LFLMBOZAA OWN 1100	0 x 1 x 2 ploc	13 O.C.	X X X X X X X X X X X X X X X X X X X	
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tetachment to COC # 42713
Kriston Durocher / ENSR, Sampler
his de
06/11/07
ish preparation:
1) Please remove fillet from fish & create
boneless & skinless fillet sample named "Sample ID" F (eg LFLMBOIAA -> fillet > LFLMBOIAA
"Sample ID" F (eg LFLMBOIAA -> fillet > LFLMBOIAA
2) Weigh & record & report fillet sample and
2) Weigh & record & report fillet sample and offal (including skin from fillet)
3) Offal + skin = "Sample IB"W" (eg LFLMBOIAAW)
4) Process /homogeninge
Sample 1DF & Sample 1DW as unique
$(\alpha + \alpha)/\alpha \leq$
5) subsample slurry & ship under COC to
5) subsample slurry & ship under COC to Axys Analytical

20
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1 2 2 - 0 2	Client/Project Name:		C Project Location:	CHAIN OF CUSTODY RECORD	CUSTO	DY RECO			A	P Analysis Requested	Page of A
Color of Coastody Trape No. CO 6 3700 Color of Coastody Trape No. CO 6 3700 Color of Coastody Trape No. CO Color of Coastody Trape No. Color of Coastody Trape No. Color of Color o	7 39-003		Field Logbook No.:			on the state of th			A SO	XX	
Time Grap Comparing port to Comparing Compar			Chain of Custody 7	No.:			Z V			X	
Time Grain Comp Surgica Considers East, Promotion Ea	1/3	L	Send Results/Repo	\mathcal{A}	300	The same of the sa	•				
0855 × 3×28 f.Dc. hay 0°C w/4 × × × × × × × × × × × × × × × × × × ×					nple Type Sludge, Etc.)	Preservative				Lab I.D.	Remarks
1 × 2 p Loc. hay 0°C. NB × × × × × × × × × × × × × × × × × ×		×	3×81		3	0°C		×	×/		MS/MSD MELECSONLY
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Date: Felinquished by (Print Name) (Affiliation) Date: Signature: Signature: Signature: Time: COO Lechnology (Coordination) Coordination Coord		7.6. ST. 19.	Signatur	SOFE TO	18/2			Katahd	S AN	JAK CO	\triangleleft
Time: Signature: Time: Colfy Scarbooush ME OLD Date: A 74-2400 Time: Signature: Signat		te:	Relinquist	30	e)/(Affiliation)	Date:		000 140	prologi	1000	
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Signature:		te:	Relinquist	thed by: (Print Name	e)/(Affiliation)	Date:		3-408	オーグナ	00	
	- L	ne:	Signature	'n		Time:				Serial M.Q.	



Katahdin Analytical Services

Login Chain of Custody Report (Ino1)

Jun. 15, 2007 07:44 AM

NoWeb

Collect

Date/Time

Login Number: SA2977

Account: ENSR002

Primary Report Address:

7041 Old Wake Forest Rd.

Kristen Durocher

ENSR

Suite 103

ENSR

Project:

Login Information

ANALYSIS INSTRUCTIONS : Need to weigh and record fillet and then weigh

and record whole fish which is remaining fish

Comments

Page: 1 of 8

and skin after fillet is removed.

CHECK NO.

CLIENT PO#

EDD FORMAT

COOLER TEMPERATURE : -0.1 **DELIVERY SERVICES** : FEDEX

MAIL DATE

PM: AJC

PROJECT NAME : 04739-003 MCRRF

Verbal

Date

QC LEVEL

PR

REGULATORY LIST

REPORT INSTRUCTIONS : Rpt to MDL. Include copy of rpt on CD.

Due

Date

: WEST-XLS

SDG ID

SDG STATUS

Receive

Date

Kristen Durocher **ENSR**

Raleigh, NC 27616

Primary Invoice Address:

7041 Old Wake Forest Rd.

Suite 103

Laboratory

Sample ID

Raleigh, NC 27616

Report CC Addresses: voice CC Addresses:

Sample Number

SA2977-1	EFBG01AAF	12-JUN-07	13:00	14-JUN-07		03-JUL-07	fillet	
Matrix	Product	Hold Date (shortest)	Bottle	Tuno	Dettle Count	-		
Tissue		, ,	Bottle	rype	Bottle Count			
	S SW3050-PREP	09-DEC-07			3			
Tissue	S SW6020-ARSENIC	09-DEC-07						
Tissue	S SW6020-BERYLLIUM	09-DEC-07						
Tissue	S SW6020-CADMIUM	09-DEC-07						
Tissue	S SW6020-CHROMIUM	09-DEC-07						
Tissue	S SW6020-LEAD	09-DEC-07						
Tissue	S SW6020-NICKEL	09-DEC-07						
Tissue	S SW7471-MERCURY	10-JUL-07						
Tissue	S TISSUE-PREP							
SA2977-2	EFBG02AAF	12-JUN-07	14:15	14-JUN-07		03-JUL-07	fillet	
Matrix	Product	Hold Date (shortest)	Bottle	Туре	Bottle Count			
Tissue	S SW3050-PREP	09-DEC-07			3			
Tissue	S SW6020-ARSENIC	09-DEC-07						
Tissue	S SW6020-BERYLLIUM	09-DEC-07						
Tissue	S SW6020-CADMIUM	09-DEC-07						
Tissue	S SW6020-CHROMIUM	09-DEC-07						
Tissue	S SW6020-LEAD	09-DEC-07						
Tissue	S SW6020-NICKEL	09-DEC-07						
Tissue	S SW7471-MERCURY	10-JUL-07						
Tissue	S TISSUE-PREP							
SA2977-3	SLBG02AAF	13-JUN-07	08:45	14-JUN-07		03-JUL-07	fillet	
Matrix	Product	Hold Date (shortest)	Bottle	Туре	Bottle Count			
Tissue	S SW3050-PREP	10-DEC-07			3			
Tissue	S SW6020-ARSENIC	10-DEC-07						
Tissue	S SW6020-BERYLLIUM	10-DEC-07						
Tissue	S SW6020-CADMIUM	10-DEC-07						
Tissue	S SW6020-CHROMIUM	10-DEC-07				•		
Tissue	S SW6020-LEAD	10-DEC-07						
Tissue	S SW6020-NICKEL	10-DEC-07						
Tissue	S SW7471-MERCURY	11-JUL-07						
Tissue	S TISSUE-PREP							



Katahdin Analytical Services Login Chain of Custody Report (Ino1)

Page: 2 of 8

Jun. 15, 2007 07:44 AM

Login Number: SA2977

Account:ENSR002 ENSR NoWeb

Laboratory	Client	Collect		Receive		Verbal	Dua	
Sample ID	Sample Number	Date/Time		Date	PR	verbai Date	Due Date	C
		Date/ Infle		Date	ΓK	Date	Dale	Comments
SA2977-4	SLLMB01AAF	13-JUN-07 09	9:00	14-JUN-07			03-JUL-07	fillet
Matrix	Product	Hold Date (shortest)	Bottle	Туре	Во	ttle Count		
Tissue	S SW3050-PREP	10-DEC-07				3		
Tissue	S SW6020-ARSENIC	10-DEC-07						
Tissue	S SW6020-BERYLLIUM	10-DEC-07						
Tissue	S SW6020-CADMIUM	10-DEC-07						
Tissue	S SW6020-CHROMIUM	10-DEC-07						
Tissue	S SW6020-LEAD	10-DEC-07						•
Tissue	S SW6020-NICKEL	10-DEC-07						
Tissue	S SW7471-MERCURY	11-JUL-07						
Tissue	S TISSUE-PREP							
SA2977-5	SLLMB02AAF	13-JUN-07 11	1:00	14-JUN-07			03-JUL-07	fillet
Matrix	Product	Hold Date (shortest)	Bottle 1	Tune	n-	Hla Cau-+		
Tissue	S SW3050-PREP	* * * * * * * * * * * * * * * * * * * *	Dome :	ype	# 01	ttle Count		
Tissue	S SW6020-ARSENIC	10-DEC-07				3		
		10-DEC-07						
Tissue Tissue		10-DEC-07						
		10-DEC-07						
lissue	S SW6020-CHROMIUM	10-DEC-07						
l'issue	S SW6020-LEAD	10-DEC-07						
lissue	S SW6020-NICKEL	10-DEC-07						
Fissue	S SW7471-MERCURY	11-JUL-07						
Tissue	S TISSUE-PREP							
SA2977-6	SLBG01AAF	13-JUN-07 07	′:30	14-JUN-07			03-JUL-07	fillet. Field dup that goes with SA2977-17 after prep.
Matrix	Product	Hoid Date (shortest)	Bottle 7	<i>ур</i> е	Bot	tle Count		and prop.
Tissue	S SW3050-PREP	10-DEC-07				3		
issue	S SW6020-ARSENIC	10-DEC-07						
lissue .	S SW6020-BERYLLIUM	10-DEC-07						
issue	S SW6020-CADMIUM	10-DEC-07						
issue	S SW6020-CHROMIUM	10-DEC-07						
issue	S SW6020-LEAD	10-DEC-07						
issue	S SW6020-NICKEL	10-DEC-07						
Γissue	S SW7471-MERCURY	11-JUL-07						
Tissue	S TISSUE-PREP							
SA2977-7	LFLMB01AAF	11-JUN-07 11	:00	14-JUN-07			03-JUL-07	MS/MSD on metals. fillet
		Unid Data (abantant)	Bottle T	уре	Bot	tle Count		
Vlatrix	Product	Hold Date (shortest)						
	Product S MS/MSD-METALS	noid Date (snortest)	Dottio i					
olid		08-DEC-07	Dollar,			3		
olid issue	S MS/MSD-METALS					3		
olid issue issue	S MS/MSD-METALS S SW3050-PREP	08-DEC-07				3		
iolid issue issue issue	S MS/MSD-METALS S SW3050-PREP S SW6020-ARSENIC	08-DEC-07 08-DEC-07				3		
Golid Tissue Tissue Tissue Tissue	S MS/MSD-METALS S SW3050-PREP S SW6020-ARSENIC S SW6020-BERYLLIUM S SW6020-CADMIUM	08-DEC-07 08-DEC-07 08-DEC-07 08-DEC-07	Jours 7			3		
Solid Tissue Tissue Tissue Tissue Tissue	S MS/MSD-METALS S SW3050-PREP S SW6020-ARSENIC S SW6020-BERYLLIUM S SW6020-CADMIUM	08-DEC-07 08-DEC-07 08-DEC-07 08-DEC-07 08-DEC-07	Jours ,			3		
solid Tissue Tissue Tissue Tissue Tissue Tissue	S MS/MSD-METALS S SW3050-PREP S SW6020-ARSENIC S SW6020-BERYLLIUM S SW6020-CADMIUM S SW6020-CHROMIUM S SW6020-LEAD	08-DEC-07 08-DEC-07 08-DEC-07 08-DEC-07 08-DEC-07	Jours 7			3		
Matrix Solid Tissue Tissue Tissue Tissue Tissue Tissue Tissue Tissue Tissue Tissue	S MS/MSD-METALS S SW3050-PREP S SW6020-ARSENIC S SW6020-BERYLLIUM S SW6020-CADMIUM S SW6020-CHROMIUM	08-DEC-07 08-DEC-07 08-DEC-07 08-DEC-07 08-DEC-07	Jours ,			3		



Katahdin Analytical Services Login Chain of Custody Report (Ino1)

Page: 3 of 8

Jun. 15, 2007 07:44 AM

Login Number: SA2977

Account: ENSR002 ENSR NoWeb

Laboratory Sample ID	y Client Sample Number	Collect Date/Time		Receive Date	PR	Verbal Date	Due Date	Comments
CA2077.0	LELMERONALE	44 810 07 4	1.00	4 4 11 15 1 077				
SA2977-8	LFLMB02AAF	11-JUN-07 1	1:00	14-JUN-07			03-JUL-07	fillet
Matrix	Product	Hold Date (shortest)	Bottle	Туре	Bo	ttle Count		
Tissue	S SW3050-PREP	08-DEC-07				3		
Tissue	S SW6020-ARSENIC	08-DEC-07						
Tissue	S SW6020-BERYLLIUM	08-DEC-07						
Tissue	S SW6020-CADMIUM	08-DEC-07						
Tissue	S SW6020-CHROMIUM	08-DEC-07						
Tissue	S SW6020-LEAD	08-DEC-07						
Tissue	S SW6020-NICKEL	08-DEC-07						
Tissue	S SW7471-MERCURY	09-JUL-07						:
Tissue	S TISSUE-PREP							
SA2977-9	LFBG01AAF	11-JUN-07 1	1:00	14-JUN-07			03-JUL-07	fillet
Matrix	Product	Hold Date (shortest)	Bottle	Туре	Во	ttle Count		
Tissue	S SW3050-PREP	08-DEC-07				3		
Tissue	S SW6020-ARSENIC	08-DEC-07						
Tissue	S SW6020-BERYLLIUM	08-DEC-07						
Tissue	S SW6020-CADMIUM	08-DEC-07						
Tissue	S SW6020-CHROMIUM	08-DEC-07						
Tissue	S SW6020-LEAD	08-DEC-07						
Tissue	S SW6020-NICKEL	08-DEC-07						
Tissue	S SW7471-MERCURY	09-JUL-07						
Tissue	S TISSUE-PREP							
SA2977-10	LFBG02AAF	11-JUN-07 11	1:00	14-JUN-07			03-JUL-07	fillet
Matrix	Product	Hold Date (shortest)	Bottle	Туре	Bo	ttle Count		
Tissue	S SW3050-PREP	08-DEC-07				3		
Tissue	S SW6020-ARSENIC	08-DEC-07						
Tissue	S SW6020-BERYLLIUM	08-DEC-07						
Tissue	S SW6020-CADMIUM	08-DEC-07						
Tissue	S SW6020-CHROMIUM	08-DEC-07						
Tissue	S SW6020-LEAD	08-DEC-07						
Tissue	S SW6020-NICKEL	08-DEC-07						1
Tissue	S SW7471-MERCURY	09-JUL-07						
Tissue	S TISSUE-PREP							
SA2977-11	AJH01AA	11-JUN-07 08	3:50	14-JUN-07			03-JUL-07	MS/MSD. Hay
Matrix	Product	Hold Date (shortest)	Bottle	Туре	Bot	tle Count		
Solid	S MISCELLANEOUS							l
Solid	S MS/MSD-METALS]
Solid	S SW3050-PREP	08-DEC-07				3		
Solid	S SW6020-ARSENIC	08-DEC-07		L Plastic				
Solid	S SW6020-BERYLLIUM	08-DEC-07		L Plastic				İ
Solid	S SW6020-CADMIUM	08-DEC-07		L Plastic				
Solid	S SW6020-CHROMIUM	08-DEC-07		L Plastic				
Solid	S SW6020-LEAD	08-DEC-07		L Plastic				
Solid	S SW6020-NICKEL	08-DEC-07		L Plastic				
Solid	S SW7471-MERCURY	09-JUL-07	50g Gla	ass				
Solid	S TS	11-JUL-07						



Katahdin Analytical Services Login Chain of Custody Report (Ino1)

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Jun. 15, 2007 07:44 AM

Login Number: SA2977

Account:ENSR002 ENSR NoWeb

Laboratory Sample ID	,	Client Sample Number	Collect Date/Time		Receive Date	PR	Verbal Date	Due Date	Comments
SA2977-12	F	AJH02AA	11-JUN-07 0	8:55	14-JUN-07			03-JUL-07	Hay
Matrix		Product	Hold Date (shortest)	Bottle	Туре	Bo	ttle Count		
Solid	s	MISCELLANEOUS							
Solid	S	SW3050-PREP	08-DEC-07				1		
Solid	S	SW6020-ARSENIC	08-DEC-07	1000mL	- Plastic				
Solid	s	SW6020-BERYLLIUM	08-DEC-07	1000mL	Plastic				
Solid	s	SW6020-CADMIUM	08-DEC-07	1000mL	- Plastic				
Solid	s	SW6020-CHROMIUM	08-DEC-07	1000mL	Plastic				
Solid	S	SW6020-LEAD	08-DEC-07	1000mL	. Plastic				
Solid	S	SW6020-NICKEL	08-DEC-07	1000mL	. Plastic				
Solid	S	SW7471-MERCURY	09-JUL-07	50g Gla	SS				
Solid	S	TS	11-JUL-07						
SA2977-13	F	RHH01AA	11-JUN-07 0	9:45	14-JUN-07			03-JUL-07	Нау
Matrix		Product	Hold Date (shortest)	Bottle 7	Гуре	Во	ttle Count		***************************************
Solid	s	MISCELLANEOUS	, ,						
Solid	s	SW3050-PREP	08-DEC-07				1		
Solid	s	SW6020-ARSENIC	08-DEC-07	1000mL	. Plastic				
Solid	s	SW6020-BERYLLIUM	08-DEC-07	1000mL	. Plastic				
Solid	S	SW6020-CADMIUM	08-DEC-07	1000mL	. Plastic				
Solid	s	SW6020-CHROMIUM	08-DEC-07	1000mL	. Plastic				
Solid	S	SW6020-LEAD	08-DEC-07	1000mL	. Plastic				
Solid	s	SW6020-NICKEL	08-DEC-07	1000mL	. Plastic				
Solid	s	SW7471-MERCURY	09-JUL-07	50g Gla	ss				
Solid	s	TS	11-JUL-07						
SA2977-14	L	FH01AA-R	12-JUN-07 09	9:50	14-JUN-07			03-JUL-07	Hay
Matrix		Product	Hold Date (shortest)	Bottle 7	ype	Boi	ttle Count		
Solid	s	MISCELLANEOUS							
Solid	s	SW3050-PREP	09-DEC-07				1		į
Solid	s	SW6020-ARSENIC	09-DEC-07	1000mL	Plastic				
Solid	s	SW6020-BERYLLIUM	09-DEC-07	1000mL	Plastic				ļ
Solid	S	SW6020-CADMIUM	09-DEC-07	1000mL	Plastic]
Solid	s	SW6020-CHROMIUM	09-DEC-07	1000mL	Plastic				1
Solid	s	SW6020-LEAD	09-DEC-07	1000mL	Plastic				
Solid	s	SW6020-NICKEL	09-DEC-07	1000mL	Plastic				1
Solid	s	SW7471-MERCURY	10-JUL-07	50g Glas	ss				Į.
Solid	s	TS	12-JUL-07						
SA2977-15	L	FH01AB-R	12-JUN-07 09):50	14-JUN-07		·	03-JUL-07	Hay
Matrix		Product	Hold Date (shortest)	Bottle T	уре	Bot	tle Count		
Solid	s	MISCELLANEOUS	. ,						
Solid	s	SW3050-PREP	09-DEC-07				1		
Solid	s	SW6020-ARSENIC	09-DEC-07	1000mL	Plastic				
Solid	s	SW6020-BERYLLIUM	09-DEC-07	1000mL					
Solid	s	SW6020-CADMIUM	09-DEC-07	1000mL					
Solid	s	SW6020-CHROMIUM	09-DEC-07	1000mL					
Solid	s	SW6020-LEAD	09-DEC-07	1000mL	Plastic				
Solid .	S	SW6020-NICKEL	09-DEC-07	1000mL					
Solid	s	SW7471-MERCURY	10-JUL-07	50g Glas	ss				
Solid	S	TS	12-JUL-07						
									<u> </u>



Katahdin Analytical Services

Login Chain of Custody Report (Ino1)

Page: 5 of 8

Jun. 15, 2007 07:44 AM

Login Number: SA2977

Account:ENSR002

NoWeb

ENSR

Laboratory	Client	Collect		Receive		Verbal	Due	
Sample ID	Sample Number	Date/Time		Date	PR	Date	Date	Comments
SA2977-16	LFH02AA-R	12-JUN-07 09:55		14-JUN-07			02 111 07	
5/125/1-10	LI HOZAA-IV	12-3011-07	J9.55	14-3010-07			03-JUL-07	Hay
Matrix	Product	Hold Date (shortest)	Bottle	Type	Во	ttle Count		
Solid	S MISCELLANEOUS							
Solid	S SW3050-PREP	09-DEC-07				1		
Solid	S SW6020-ARSENIC	09-DEC-07		nL Plastic				
Solid	S SW6020-BERYLLIUM	09-DEC-07		nL Plastic				
Solid	S SW6020-CADMIUM	09-DEC-07		L Plastic				:
Solid	S SW6020-CHROMIUM	09-DEC-07		nL Plastic				
Solid	S SW6020-LEAD	09-DEC-07		nL Plastic				
Solid	S SW6020-NICKEL	09-DEC-07		L Plastic				
Solid	S SW7471-MERCURY	10-JUL-07	50g G	lass				
Solid	S TS	12-JUL-07						
SA2977-17	SLBG01ABF	13-JUN-07 (7:30	14-JUN-07			03-JUL-07	Fillet. Field duplicate that goes with SA2977-6 after prep.
Matrix	Product	Hold Date (shortest)	Bottle	Туре	Во	ttle Count		- жин амдан но диын ргер.
fissue	S SW3050-PREP	10-DEC-07				3		
issue	S SW6020-ARSENIC	10-DEC-07						
issue	S SW6020-BERYLLIUM	10-DEC-07						
issue	S SW6020-CADMIUM	10-DEC-07						
issue	S SW6020-CHROMIUM	10-DEC-07						
issue	S SW6020-LEAD	10-DEC-07						
lissue .	S SW6020-NICKEL	10-DEC-07						
Tissue	S SW7471-MERCURY	11-JUL-07						
Tissue	S TISSUE-PREP							
A2977-18	EFBG01AAW	12-JUN-07 1	3:00	14 - JUN-07	-		03-JUL-07	whole
Vatrix	Product	Hold Date (shortest)	Bottle	Туре	Box	ttle Count		
issue	S SW3050-PREP	09-DEC-07		••		3		
issue	S SW6020-ARSENIC	09-DEC-07				•		
issue	S SW6020-BERYLLIUM	09-DEC-07						
issue	S SW6020-CADMIUM	09-DEC-07						ě.
issue	S SW6020-CHROMIUM	09-DEC-07						
issue	S SW6020-LEAD	09-DEC-07						
issue	S SW6020-NICKEL	09-DEC-07						
issue	S SW7471-MERCURY	10-JUL-07						
issue	S TISSUE-PREP							
A2977-19	EFBG02AAW	12-JUN-07 1	4:15	14-JUN-07			03-JUL-07	whole
	Product	Hold Date (shortest)	Bottle	Туре	Bot	tle Count		
ssue	S SW3050-PREP	09-DEC-07				3		
ssue	S SW6020-ARSENIC	09-DEC-07				-		
ssue	S SW6020-BERYLLIUM	09-DEC-07						
ssue	S SW6020-CADMIUM	09-DEC-07						
ssue	S SW6020-CHROMIUM	09-DEC-07						
ssue	S SW6020-LEAD	09-DEC-07						
ssue	S SW6020-NICKEL	09-DEC-07						
	S SW7471-MERCURY	10-JUL-07						
	S TISSUE-PREP							



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Account: ENSR002

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Laboratory Sample ID	, Client Sample Nu	Collect mber Date/Time	;	Receive Date	PR	Verbal Date	Due Date	Comments
SA2977-20	SLBG02AAW	13-JUN-07	08:45	14-JUN-07			03-JUL-07	whole
Matrix	Product	Hold Date (shortest)	Bottle	е Туре	Во	ttle Count		***************************************
Tissue	S SW3050-PREP	10-DEC-07				3		
Tissue	S SW6020-ARSENIC	C 10-DEC-07						
Tissue	S SW6020-BERYLL	IUM 10-DEC-07						
Tissue	S SW6020-CADMIU	M 10-DEC-07						
Tissue	S SW6020-CHROM	UM 10-DEC-07						1
Tissue	S SW6020-LEAD	10-DEC-07						
Tissue	S SW6020-NICKEL	10-DEC-07						
Tissue	S SW7471-MERCUF	RY 11-JUL-07						
Tissue	S TISSUE-PREP							
SA2977-21	SLLMB01AAW	13-JUN-07	09:00	14-JUN-07			03-JUL-07	whole
Matrix	Product	Hold Data Jahartan	Daw.	Tuna		W- 0		
Tissue	S SW3050-PREP	Hold Date (shortest) 10-DEC-07	≓otti€	е Туре	Bo	ttle Count		
						3		
Tissue	S SW6020-ARSENIC							
Tissue	S SW6020-BERYLLI							
Tissue	S SW6020-CADMIUI							
Tissue	S SW6020-CHROMI							
Tissue	S SW6020-LEAD	10-DEC-07						
Tissue	S SW6020-NICKEL	10-DEC-07						
Tissue	S SW7471-MERCUF	RY 11-JUL-07						
Tissue	S TISSUE-PREP							
SA2977-22	SLLMB02AAW	13-JUN-07	11:00	14-JUN-07			03-JUL-07	whole
Matrix	Product	Hold Date (shortest)	Bottle	Туре	Bo	ttle Count		
Tissue	S SW3050-PREP	10-DEC-07				3		
Tissue	S SW6020-ARSENIC	10-DEC-07						
Tissue	S SW6020-BERYLLI	UM 10-DEC-07						
Tissue	S SW6020-CADMIUN	M 10-DEC-07						
Tissue	S SW6020-CHROMI	JM 10-DEC-07						
Tissue	S SW6020-LEAD	10-DEC-07						
Tissue	S SW6020-NICKEL	10-DEC-07						
Tissue	S SW7471-MERCUR							
Tissue	S TISSUE-PREP							
SA2977-23	SLBG01ABW	13-JUN-07 (7:30	14-JUN-07			03-JUL-07	whole. Field dup that goes with
·								SA2977-28 after prep.
Matrix	Product	Hold Date (shortest)	Bottle	Type	Bot	tle Count		
	S SW3050-PREP	10-DEC-07				3		
	S SW6020-ARSENIC							
	S SW6020-BERYLLIU	JM 10-DEC-07						
	S SW6020-CADMIUN	10-DEC-07						
Tissue	S SW6020-CHROMIL	JM 10-DEC-07						
Tissue	S SW6020-LEAD	10-DEC-07						
Tissue	S SW6020-NICKEL	10-DEC-07						
Tissue	S SW7471-MERCUR	Y 11-JUL-07						
Tissue	S TISSUE-PREP							



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Laboratory Sample ID	, 	Client Sample Number	Collect Date/Time		Receive Date	PR	Verbal Date	Due Date	Comments	
SA2977-24	L	FLMB01AAW	11-JUN-07	11:00	14-JUN-07			03-JUL-07	whole. MS/MSD.	
Matrix		Product	Hold Date (shortest)	Bottle	Туре	Bo	ttle Count			
Solid	S	MS/MSD-METALS								
Tissue	S	SW3050-PREP	08-DEC-07				3			
Tissue	S	SW6020-ARSENIC	08-DEC-07							
Tissue	S	SW6020-BERYLLIUM	08-DEC-07							
Tissue	s	SW6020-CADMIUM	08-DEC-07 .							
Tissue	S	SW6020-CHROMIUM	08-DEC-07							
Tissue	S	SW6020-LEAD	08-DEC-07							
Tissue	S	SW6020-NICKEL	08-DEC-07							
Tissue	s	SW7471-MERCURY	09-JUL-07							
Tissue	S	TISSUE-PREP								
SA2977-25	L	FLMB02AAW	11-JUN-07 1	1:00	14-JUN-07		······································	03-JUL-07	whole	***
Matrix		Product	Hold Date (shortest)	Bottle	Туре	Bo	ttle Count			
Tissue	s	SW3050-PREP	08-DEC-07				3			
Tissue	s	SW6020-ARSENIC	08-DEC-07							
lissue .	s	SW6020-BERYLLIUM	08-DEC-07							
Tissue	S	SW6020-CADMIUM	08-DEC-07							
Tissue	s	SW6020-CHROMIUM	08-DEC-07		•					
lissue .	s	SW6020-LEAD	08-DEC-07							
Tissue	s	SW6020-NICKEL	08-DEC-07							
Tissue	S	SW7471-MERCURY	09-JUL-07							
Tissue	S	TISSUE-PREP								
SA2977-26	L	FBG01AAW	11-JUN-07 1	1:00	14-JUN-07			03-JUL-07	whole	
Matrix		Product	Hold Date (shortest)	Bottle	Туре	Bot	tle Count			
Γissue	s	SW3050-PREP	08-DEC-07				3			
Tissue	S	SW6020-ARSENIC	08-DEC-07							
issue	S	SW6020-BERYLLIUM	08-DEC-07							
issue	S	SW6020-CADMIUM	08-DEC-07							
issue	S	SW6020-CHROMIUM	08-DEC-07							
ïssue	S	SW6020-LEAD	08-DEC-07							
issue	S	SW6020-NICKEL	08-DEC-07							
issue	S	SW7471-MERCURY	09-JUL-07							
issue	S	TISSUE-PREP								
A2977-27	L	FBG02AAW	11-JUN-07 1	1:00	14-JUN-07			03-JUL-07	whole	
fatrix		Product	Hold Date (shortest)	Bottle	Туре	Bot	tle Count			
issue	S	SW3050-PREP	08-DEC-07				3			
issue	S	SW6020-ARSENIC	08-DEC-07							
issue	S	SW6020-BERYLLIUM	08-DEC-07							
issue	S	SW6020-CADMIUM	08-DEC-07							
ssue	S	SW6020-CHROMIUM	08-DEC-07							
ssue	S	SW6020-LEAD	08-DEC-07							
ssue	S	SW6020-NICKEL	08-DEC-07							
	_	0147174 147704								
ssue	S	SW7471-MERCURY	09-JUL-07							



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Project:

Laboratory Sample ID		Client Sample Number	Collect Date/Time		Receive Date	PR	Verbal Date	Due Date	Comments
SA2977-28 SLBG01AAW		13-JUN-07 07:30 14		14-JUN-07	14-JUN-07		03-JUL-07	whole. Field dup that goes with SA2977-23 after prep.	
Matrix		Product	Hold Date (shortest)	Bottle	Type	Во	ttle Count		or into the nation of the nati
Tissue	s	SW3050-PREP	10-DEC-07				3		
Tissue	s	SW6020-ARSENIC	10-DEC-07						
Tissue	s	SW6020-BERYLLIUM	10-DEC-07						•
Tissue	s	SW6020-CADMIUM	10-DEC-07						
Tissue	s	SW6020-CHROMIUM	10-DEC-07						*
Tissue	S	SW6020-LEAD	10-DEC-07						I
Tissue	S	SW6020-NICKEL	10-DEC-07						1
Tissue	S	SW7471-MERCURY	11-JUL-07						
Tissue	S	TISSUE-PREP							

Total Samples:

28

Total Analyses:

261

Appendix E

Screening levels

Appendix E

Screening Benchmarks

E.1 Surface Water

E.1.1 Maryland Toxic Substances Criteria for Ambient Surface Waters

Maryland Toxic Substances Criteria for Ambient Surface Waters (Table F-1) were developed to protect human health and aquatic life. For the purposes of this report, human health fish consumption values and chronic freshwater aquatic life values were used. The human health fish consumption advisories were derived to protect the "wholesomeness of fish for human consumption" whereas the aquatic life chronic values were derived to "protect freshwater life from toxicity impacts" (Maryland DOE Title 26 Subtitle 8). The toxic criteria for metals are based on dissolved metals concentrations; comparison of the total recoverable metals concentrations in surface water samples to these values is highly conservative. Although criteria for certain metals are dependent on the hardness of the water, the values were presented as recommended in the criteria document, normalized to 100 mg/L CaCO₃.

E.1.2 Federal Ambient Water Quality Criteria

U.S. EPA's 1985 Guidelines (Stephan et al., 1985) describe an objective, internally consistent and appropriate approach for deriving numeric water quality criteria for the protection of water class use and resident aquatic organisms. Ambient Water Quality Criteria (AWQC) were derived to protect the majority of aquatic organisms the majority of the time (U.S EPA, 2006). Chronic aquatic organism criteria are the lowest of the calculated number for the protection of aquatic organisms (Final Chronic Value), aquatic plants Final Plant Value), or the water concentration that would result in a fish tissue burden that exceeds human health or wildlife consumption standards (Final Residue Value). In addition to the chronic AWQC for the protection of aquatic life described above, AWQC derived for the protection of human health from consumption of aquatic organisms are used in this report.

The toxic criteria for metals are based on dissolved metals concentrations; comparison of the total recoverable metals concentrations in surface water samples to these values is highly conservative. Criteria for certain metals are dependent on the hardness of the water. Where applicable, these values were normalized to the site-specific hardness concentrations in each pond.

E.2 Sediment

Screening values for sediment were obtained from two sources: U.S. EPa Region 3 freshwater sediment screening benchmarks¹ and consensus-based sediment quality

E-1

¹ http://www.epa.gov/reg3hwmd/risk/eco/btag/sbv/fwsed/screenbench.htm

guidelines (MacDonald et al., 2000). For the consensus-based concentration, both Threshold Effect Concentrations (TECs) and Probable Effects Concentrations (PECs) were presented. TECs are concentrations below which effects are unlikely to benthic organisms. Above the PEC level, effects are likely. Both sets of benchmarks were developed considering effects to benthic organisms. The TCDD screening value from U.S. EPA Region 3, which assumes 1% organic carbon, also considers the potential bioaccumulative properties of dioxins and furans.

Sediment benchmarks were found for all constituents except beryllium.

E.3 Milk

In the absence of any risk-based protective values for human consumption of cow's milk, federal drinking water standards (Maximum Contaminant Levels (MCLs), U.S. EPA, 2000) were used. In general, the MCLs are based on several factors, including risk to human health based on the consumption of drinking water at a rate of 2 liters per day and treatment technology (i.e., some MCLs are the lowest achievable concentrations that can be detected based on current technology). MCLs based on cancer risk are calculated based on a 10⁻⁶ cancer risk, while MCLs based on noncancer are calculated based on an acceptable hazard index of one. For nickel, the concentration typically found in milk samples from the University of Guelph dairy science department (www.foodsci.uoguelph.ca/dairyedu/chem.html) was used, as there is no MCL for nickel.

The Commission of the European Communities (CEC) (2002) has risk-based levels for dioxins (as 2,3,7,8-TCDD TEQ) in food products, including milk. The value of 3 pg/g lipid (equal to 3,000 ppq based on lipid) is the maximum (upper bound) risk level for dioxins as 2,3,7,8-TCDD TEQs in raw milk. While the MCLs are numbers promulgated by the U.S. EPA, the European number was chosen for inclusion in the report because:

- 1) The MCL for dioxins is not risk-based, but is technology based, and
- 2) The maximum risk level from the CEC is medium-specific (i.e., it is actually for milk, and not drinking water).

E.4 Hay

Literature values for hay were obtained from Kabata-Pendias and Pendias (1984). The hay collected for this program is timothy. Timothy values from the United States were not available. For arsenic, beryllium, and chromium, specific grass or hay values were not available, and the values presented represent concentrations typical of vascular plants. Values obtained for nickel and cadmium are based on concentrations in immature grasses, and the mercury screening value is based on grasses and feed legumes. All vegetation screening values are presented on a wet weight basis. Where applicable, dry weight screening values were converted to wet weight assuming the moisture content of grasses is 70% (U.S. EPA, 1993).

E.5 Fish

Screening values for mercury and 2,3,7,8-TCDD were found for fish tissue. The mercury value is the ambient water quality criterion (U.S. EPA, 2006) for mercury and reflects the acceptable level of methylmercury in edible fish. Since fish tissue were analyzed for total mercury, this value may be slightly conservative. The screening value for 2,3,7,8-TCDD was obtained from the U.S. EPA (1994) report Estimating Exposure to Dioxin-like Compounds. This value was derived using 60 fish tissue samples, assuming in the TEQ calculation that all non-detected congeners were equal to zero.

E.6 References

- Commission of the European Communities, July 1, 2002, Limits on Presence of Dioxin in Food. IP/02/959
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- Kabata-Pendias, A. and H. Pendias, 1984. Trace Elements in Soils and Plants. CRC Press, Inc. Boca Raton, FL.
- MacDonald, D.D., C.G. Ingersoll and T.A. Berger, 2000. Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems.

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- U.S. EPA, 2001. National Primary Drinking Water Standards. Office of Water. EPA 816-F-01-007 March 2001.

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Appendix F

Field notes - June 2007

Same and the same and Mary Constant 06-11-07 078 set MCRRF Mary State of the Name of the last o Soft Beatson / ENSR MD Kisten Durocher / ENSR NC Chargest State of Commence 0730 Bill Davidson on site Commence of the Control Cincolnia in the Control Map locations Company of the Company 1st Artie Jay and Tim Evans I fue can Company of the Hel S Briefing **C** Head to Artie Jay Farm **C** Bill to call Jim Evans -access is sues 0815 Collect Blank AJMOIAC 2+ 1L amber 5 2+ 250 mL Plastal <u>C1</u>

D061107 061107 0940 Arrive Rick Herbene Farm 0825 AJMOIAA C 3 nelals Lucketts, H 3 X x 250 ML P MS/MSD 0945 RHHOLAA 2 x 250 ml amb dioxan from C. ex foil motals dioxin-furar 0835 ATMORAA 250 ml P molals US Enviormental Fed Ex # 2x250 ml amb dia fur 9335 4834 0691 in dredge ATMODAB 250 nL P metals Scott Bestson's house 1045 Arrive Lermond Rond Calibrate YS1 OSSO ATHOIAA Sp Cond 100 mg 3x foil motals MS(NS) 0855 AJHOZAA 1 × fal nelals dioxins 10.06 0H10 10.36 **C** 3 DO 100.0% John Lot 01-311-2006 Cond 5582 5551 61-09:2008 p144 01-31 -200 6 5581 DHF 5570 01-23-2018

D061107 061107 LPLMBO2AA 11:00 Begin fishing **6** 3 **e** 1 2 LFLMBOIAA 1300 Deploy gill nots for use for Whole & Fillet 20 minutes -no catch LFBGOIAA 1330 Head to MCRRF 6.5" -meet w/Bill Davidson & Joe Ladana in and the second 5.75" Making Language Co. 1/30 Sangle Hay Go to Site 2 Landfill > denied access UBOLFHOIAA metals + duxin LFHOIAB metals only U35 LFHOZAA metals + disprin Section 1997 - Farmer leasor gated 1400 Back at MCRRF - Joe Ladoura (eft msg for farmer American Company LFBGOZAA 6" 1430 Off Site 1500 Cocs at hote -check tomorrow

1 061207 061107 061207 Plan For Tues 06-12 0745 Meet at RRF 0745 Meet MCRRF Bill Oavidson 0800 Frish Lermond Scott Beatson - water Lister Durcher - sedimont 0800 To Lee mond lond - bluegill (?) 151 cond 984. 1000 1030 Jim Evans Farm (2.3) 3.98 4.00 pH12 9.84 - fish - Water Commence of the Commence of th -sediment 0825 SD Blank IF Possible LF5DOIAC Site 2 Land 2 2 x 250 mL P -water **6** 2 960t net -sedement to diss net 2 2+1Lanker € 3 **6** 3 0830 Bearn (as) 2 **E** 9

DO 061207 D 001207 0900 LFSDOIAA Near shore WQ 1 + 250 ml q netals TOC 129 us/cm 1x500 ntant OF **C** 3 5.01 mg/L 23.54 0 bown, dark gray no odoc 8.70 SU VF sand silt Carrie Land much 0845 LFSWOIAA LESWOTAB & The same of the sa 09/0/FS602AA 250 MLP diss not hard 20 25 nLg net 700 250 MLP tot net hard MASON Wants DF 1-Land DF Marine Commence of the Commenc 0850 LFSWODAA 0910 LESDUZAB LFSW02AB 250 mL q USUML alab The second second WQ tot lepth 4" black organic on surface larkofty The same of the sa 23.70°C 134 us/cn VC sandsilt 3.95 mg/L DO 46.0% DU **6** 2 (12 O). D

\$ 061207 061207 1015 Catch bluggel 0950 LFHOLAA-R mdd/gf/1.p **c** 9 LFHOIAB-R netal - add to LFBG 021A **E** = 3 0955 LFHOD AA-R met/OF Ky 11:00 At Invenors form Note: Samples Collected from and the second - I'm Frans **a** 3 Lermond Farm whete **5** 2:1.35°C from wrong bales - dixard 234 uS/cm 91.78/0 DO LEHDIAA **S** 7.65 mg/ LFH01AB _____ 8-62 50 LFHODAA 6'ft Doep 2 1010 Large mouth bass reading 2' The section is the second - just ingested blynegill 2 1120 EFSWOIAA - visible in gullett 2 x 250 ml / 5 tot met hard - will genove blueaul at labelable to Gdess met hard £ 2 1x 11 anther To LFBGOLAA -add LMB to LELMBOIAAA Make MS/MSD

1 06/207 061207 Cast for 30 ninutes more 6-9 1/30 EFSWOZAA for bass 250 ml P diss net hard -no bites 20 nL P tot net hard 1500 At RRF 1140 EFSDOIAA SOOMLand net fra Godfrey's cell # 3x Brugill 240-372-0124 -Bill Squidson Afrite Worth on Ste tonow **a** 3 1315 Deploy gill ret from **2** Norther of pondo Joe Ladana 2 2 > tey is in a jug in 1350 Catch 3" bluegett. a love rear oute Carrier Control 1400 Jin Evan on site w/ Jup Katahden 1, cooler 84720624 **e** 2 Agree to neit, Scott a Sig3 1405 Catch bluegell 10700 Wed 6/13 1415 Pick onfaill set 13 × Bluedgell; Israpping 3-6" Weather all day Sunny Total 18 bluegill 15" highUn 85°F 2 2 9: EFBGOIAA @ 1300 9: EFBG 02AA (W) 1415 200 EFSD 02 AA 250m S met TOS DF

B01307 06307 0700 Met w/ Solt Beatsonat ORO SLSDOIAX 1×250 q (5) metals Site 2 Landfill A Commission of the Commission Las TOC Service of the Control of the Contro 12 500 1/ cemps (s) di oxen 1 Sunry, hory 650F 3 **6**43 Brown **6** Silty sand lot of fine organic 6" Bluegelf \SLBGOIM dekri5 7" Blegill 2×4", 1×8" No odor **6** 3 0800 SLSW01AA 0830 SLSW 02AA 3x 250 mLP 250 ML P **C** 5 tot net MS/MSD 45 total metals 4 hardness to hardness 250 mll 3x 250 ml P 43 diss metals 6 diss net MS/MSD 4 hardness 5 hardness 1x 11 anter 1-Lamber. 5 dioxan/ 5 dioxen Juran

561307 061307 26.62 6 0840 SLSDOZAA SU 250 ml 9 ng K 5 metals 1120 LOTOC 500 nl amber **C** medium sand w/ silt some detritus no odos brown Bluegilt BODD) SLLMBOIAA SLBGOZAA W 0900 **c** 2 4.5" Bluegell Carry and Alberta all to SLBGDIAA /AB Cond 2×4" -arginouth bas 10.00 10.40 SLLMBOZAA 00JI @ Aldto ALBGOOM

D061307 1300 Atfle Pack samples 3 7 Keetahd 2 3 2 847206245120 2 2 5119 2 7, Aus both 1 **2** 8583 0012 8803 = 3 2 e 9 Control of the Contro